CONNECTICUT GROUND WATER SURVEY
A PROJECT OF THE WORK PROJECTS ADMINISTRATION

THE CONNECTICUT RIVER VALLEY FLOOD OF SEPTEMBER 1938 IN CONNECTICUT

BULLETIN W-2

PREPARED BY
OFFICIAL PROJECT 665-15-3-116
WORK PROJECTS ADMINISTRATION FOR CONNECTICUT
VINCENT J. SULLIVAN, ADMINISTRATOR

IN CO-OPERATION WITH AND UNDER THE DIRECTION OF THE
CONNECTICUT STATE WATER COMMISSION, SPONSOR

HARTFORD, CONNECTICUT
NOVEMBER - - 1939

Connecticut Ground Water Survey

A Project of the Work Projects Administration

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Hartford, Connecticut
November, 1939

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CONNECTICUT GROUND WATER SURVEY

Rooms 501-502, State Capitol

Hartford, Connecticut

November 29, 1939

General S. H. Wadhams, Director
Connecticut State Water Commission
State Office Building
Hartford, Connecticut

Dear Sir:

I am pleased to transmit to you in this report the major part of the results of the work of the Connecticut Ground Water Survey during the Connecticut River Valley Flood of September, 1938.

In the emergency caused by an imminent flood, and upon approval of your request for assistance by the Works Progress Administration, the available personnel of this project were organized to secure certain factual data relating to the behavior of the expected major flood in the Connecticut River Valley, an assignment for which no established public agency had facilities. As soon as the field staff, averaging 15 men, had completed the desired field observations, the data secured was reviewed and checked.

The present report, supplemented by files of tabular, graphical, and photographic material, and substantiated by detailed records, is intended to make available the data as a public record.

The nature and the extent of the work thus carried out was similar to that accomplished by this Survey during the 1936 flood in the Connecticut River Valley. It was not possible to secure detailed information as to the nature and amount of flood damage with the facilities at hand. Throughout the work, the Survey was afforded the closest co-operation by public agencies and officials, as well as by the citizens, even under the disaster conditions following the hurricane. The accomplishment of the work was made possible not only through active co-operation between the Works Progress Administration in furnishing personnel and the State in meeting the costs of transportation and materials, but also through the close co-operation of their respective administrative staffs.

The field work during the two-week period of emergency was supervised by R. M. Logie and W. E. Danielson, assisted by J. I. Anderson and F. W. Carter. The compilation and correlation of the data for this report, as well as of the supplementary material, were very capably brought to completion by J. I. Anderson, succeeding R. M. Logie who so ably supervised the earlier office work. The preparation of present report was the responsibility of J. I. Anderson. The report was stenciled, mimeographed and assembled under the direction of W. E. Danielson.

Acknowledgment is made of the valuable public services rendered during the emergency by others of our staff: S. G. Tuell assisted by W. C. Pendleton, assigned to observations at outlying dams, whose resourcefulness overcame the many difficulties at the height of the disaster; and Arthur McDonald, who ably directed our chemical laboratory unit in assisting local health and civic authorities after the hurricane.

To Mr. Anderson and to the others of this Survey who contributed so largely to the successful completion of this report is due my sincere appreciation. To those of this Survey who worked in the field for long hours under the most adverse conditions during the emergency, the thanks of the State and Federal governments, and of myself, are due.

May I also express to you and to your staff my appreciation, as well as that of the Survey, for the valued instruction and co-operation tendered us during our activity in this special task.

Very truly yours,

W. H. Brothwell

W. H. Brothwell, Supervisor

CONNECTICUT GROUND WATER SURVEY

WHB/atp

Connecticut Ground Water Survey
Room 325
State Office Building
Hartford, Connecticut

June 30, 1939

Mr. W. H. Brothwell, Supervisor
Connecticut Ground Water Survey
State Office Building
Hartford, Connecticut

Dear Sir:

I herewith submit for your consideration and acceptance the final report of the special survey made by our staff, on the flood of September, 1938 in the Connecticut River Valley.

Included in this report are all data secured by our men in the field relating to heights attained by and extent of the flood waters, together with hydrographs of flood stages at various points along the Connecticut and Farmington River Valleys. Certain related data gathered and furnished by various public agencies and others not connected with our Survey are also presented for reference.

Included in this report for purposes of comparison and ready reference are selected data from "The Great Flood of March 1936 etc." prepared by our survey in June 1938. This typed report on the preceeding flood contains much additional data of value in flood studies.

Supplementing but no included in the present report are four maps as follows:

The first is a "Plan and Profile of the Flood of September 1938, Connecticut River in Connecticut," which shows (a) the areas flooded in 1936 and in 1938 along the Connecticut River from the Connecticut-Massachusetts line to the Jetties at Saybrook Point; (b) the profile of the 1938 flood crest; (c) the profile of the 1936 flood crest; (d) the profile of the 1927 flood crest; (e) the location and designation of high water marks; and (f) location-diagrams of various known flood control measures as proposed by U. S. Army Engineers and by others. Items (a) and (e) of this map have been reproduced on eight letter-size maps which are included in this report.

The second map carries the same features on an enlarged scale; but covers only that section of the river which lies between Gildersleeve on the north to Higganum on the south.

The third map is a "Plan of the Farmington River Valley" showing (a) the area flooded in September, 1938; (b) the location and designation of high-water marks and (c) the location of dams, rain-gauges and stream gauging stations.

Connecticut [illegible] Water Survey
Box [illegible]
State Office Building
Hartford, Connecticut

June [illegible], 19[illegible]

Prof. [illegible], Supervisor
Connecticut Ground Water Survey
State Office Building
Hartford, Connecticut

Dear Sir:

I herewith submit for your consideration and acceptance the final report of the special survey made by the staff, on the flood of September, 1938 in the Connecticut River Valley.

Contained in this report are all data secured by our crew in the field relating to heights attained by and extent of the flood waters, together with hydrographs of flood stages at various points along the Connecticut and Farmington River Valleys. Certain reports have been furnished by various public agencies and others who cooperated with this study and also furnish the references.

Included in this report for purposes of comparison and ready reference are selected data from "The Great Flood of March, 1936 etc." prepared by our survey in June 1936. This later report on the Connecticut flood contained much additional data of value to flood studies.

Supplementing but not included in the present report are four maps as follows:

The first is a "Plan and Profile of the Flood of September 1938, Connecticut River in Connecticut," which shows (a) the areas flooded in 1936 and in 1938 along the Connecticut River from the Connecticut-Massachusetts line to the [illegible] of [illegible]; (b) the profile of the 1936 flood crest; (c) the profile of the 1938 flood crest; (d) the profile of the 1927 flood crest; (e) the location and designation of high water marks and (f) location of various flood control measures as proposed by the U.S. Army Engineers and by others. Items (a) and (e) of this map were also reproduced on eight letter-size maps which are included in this report.

The second map contains the same features on an enlarged scale but shows only that portion of the river which lies between [illegible] in the [illegible] of [illegible] on the south.

The third map is a "Plan of the Farmington River Valley" showing (a) the area flooded in September, 1938; (b) the location and designation of high water marks and (c) the location of dams, rain-gauges and stream gauges in addition.

The fourth showing on an enlarged scale certain features of the third, covers (a) The profile of the 1938 flood crest in the Farmington Valley; (b) the 1936 flood crest profile and (c) the low water profile. The latter two aspects of this map have been plotted from data obtained from "A Digest of High-Water Marks on the Connecticut River and Tributaries," compiled October 14, 1936, by V. C. Dempsey, U. S. Engineer Office, Providence R. I.

Preliminary work on the compilation of data and maps, including flood crest profiles on the Connecticut River, was carried out by and under the supervision of Mr. R. M. Logie, formerly of this Survey.

The compilation of data and level work relating to the Farmington Valley was done by Mr. R. G. Pike, assisted by Mr. R. A. Baldauf and Mr. E. H. Reynolds, and reviewed by the writer.

I have been able to complete the compilation and checking of the data contained in this report, as well as of the maps described heretofore, with the able assistance of yourself, Mr. R. G. Pike, Mr. E. Doll, Mr. E. H. Reynolds and Mr. G. C. Ebersold of our staff, Mr. William Rogers Copeland, Chief Engineer of the State Water Commission; Mr. C. W. Cooke of the Engineering Department, City of Hartford; Mr. Henry E. Hathaway of the U. S. Weather Bureau at Hartford and Mr. B. L. Bigwood, District Engineer, U. S. Geological Survey, Water Resources branch, all gave most helpful suggestions and technical guidance.

Respectfully submitted

J. Irving Anderson
Field Engineer

J.I.A:AT

I. INTRODUCTION

I. Introduction

(a) General Conditions Preceding and During the Flood.

In 300 years of record it does not appear that a major flood in the lower Connecticut River Valley ever occurred before in September. Ordinarily, early autumn rains in this section are quickly absorbed into ground water supplies and surface water storage. The heavy rainfall which began on September 17, 1938, and which continued intermittently through the twenty first totaled at different points from ten to seventeen inches of precipitation. Because of the saturated condition of the ground and with little or no storage capacity remaining in dams and reservoirs, the run-off was rapid. Tributary streams became torrents carrying away dams, bridges, highways and buildings; and with the arrival of heavy discharge from upper New England, the swollen Connecticut rose in this State to heights that were within a foot or two of those reached by the unprecedented flood of March 1936.

The tropical hurricane which swept across New England on the twenty-first added immeasurably to the desolation caused by the flood, but the hurricane itself was a minor factor in producing flood conditions. The flood and hurricane combined, however, took a toll of human life and property such as New England has perhaps never known before.

Another unusual feature of this flood was that most of the tributaries of the Connecticut River in Connecticut reached flood stages in excess of those encountered during the 1936 flood. Furthermore, according to the Seventh Biennial Report[1] of the State Water Commission "there is no reason to doubt that future floods may rise to even greater heights."

(b) Participation of this Survey in Emergency

"It is of utmost importance," continues the report, "that the most accurate records obtainable of this flood should be collected and recorded. It is possible that study of these records may show the wisdom of revising in certain details the present program of dike and reservoir construction in the Connecticut River Valley.

"With this in mind," declares the report, "The State Water Commission stationed men at strategic points along the Connecticut River who made frequent observations throughout each 24-hour period when it became apparent that the river was to reach flood stages. This was made possible through the approval by Works Progress Administration authorities of the use for this purpose of the personnel engaged on the Ground Water Survey,

"It will take some time to collect, check, and evalute the data obtained by the Ground Water Survey, but when that has been done, there should be a complete and accurate record of the flood of 1938 as it affected the Connecticut River and some of its major tributaries. * * *
Lack of funds and personnel did not permit including in this investigation any estimate of property losses."[2]

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[1] 1938: Connecticut State Water Commission: Page 24.
[2] op. cit., p.25.

(c) Field Operations

Field operations of the Survey in connection with flood observations started on September 21, but were hampered by the hurricane which reached Hartford about 4 o'clock in the afternoon of the same day. After much roundabout travel, due to highways being flooded or blocked by fallen trees and wires, observations at selected key points were begun on the morning of the twenty-second, continuing in day and night shifts until the water receded to fairly low stages. The program and proceedures followed were in general modeled after those in effect during the flood of 1936, when the personnel of the Ground Water Survey was assigned to carry out an emergency program of establishing high-water marks, taking water-stage measurements, photographing, mapping flooded areas, establishing elevations, plotting data and related activity. Technical direction in 1938 as in 1936 was provided by the engineering staff of the State Water Commission, assisted by the technical and supervising staff of this Survey.

Gauge stations were established at numerous locations between Enfield and Essex, at which successive river stage measurements were taken and recorded at frequent intervals during the several days of flood. Gauges and high-water marks were later referenced by this Survey to established benchmarks by third-order levelling and the Water-stage measurements then were converted to mean sea-level datum.

Immediately upon completion of stage measurements, field personnel examined the borders of the areas flooded and established high-water marks at intervals along both shores of the Connecticut and Farmington rivers. These marks were in general established by means of examination of the scum line on poles, trees, and structures. In addition, a number of well substantiated high-water marks were secured from citizens, co-operating concerns and agencies. All useable marks were indicated definitely by means of kiel, spikes, brass angle-plates, or copper discs. Descriptions of their appearance and location were then prepared. (These marks were referenced to mean sea level by third-order levelling, using suitable bench-marks or known elevations.) All testimony offered by citizens was carefully checked to guard against exaggeration or error. After such checking, the high-water marks were carefully graded according to an accepted classification used by United States Engineer Office in grading similar 1936 flood marks. This classification is as follows:

A-Clear mark, accurately located, reliable witness;
B-Fairly good mark, accurately located, reliable witness;
C-Mark, location, or testimony doubtful;
D-Distinctly poor mark, location, or elevation;
E-All factors so uncertain as to destroy value of data;
X-Inconsistent with previous data.*

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* It is of interest to note that approximately 80% of the 1938 high-water marks established by the Ground Water Survey were properly classifiable under "A", 15% under "B," and the remainder among "C," "D," "E," and "X," Only those marks classified under "A" or "B" were used on the flood crest profile prepared to supplement this report.

In all, 178 points, comprising 152 high-water marks and 26 gauge stations, were established at different locations.

The following tables give the number of high-water marks and gauge stations established by this Survey and by the various co-operating organizations:

High-water Marks established:

Connecticut Ground Water Survey	116
W.P.A. (various projects)	8
Hartford City Engineer Department	19
Connecticut State Water Commission	3
Bigelow-Sanford Company, Inc.	1
Middletown Dept. of Public Works	1
Montgomery Company (Windsor Locks)	3
Horton Company (Windsor Locks)	1
Total	152

Gauge Stations established:

Connecticut Ground Water Survey	18
W.P.A. (East Hartford)	2
Bigelow-Sanford Company, Inc.	1
U.S. Geological Survey*	1
U.S. Weather Bureau*	1
Montgomery Company	1
Connecticut State Water Commission	1
Connecticut Light & Power Company	1
Total	26

In localities where other agencies were prepared to make surveys of flood data, arrangements were made through the Ground Water Survey for exchange of data. Such pertinent information as had been gathered under this arrangement were later incorporated with the material the Survey had gathered and designated as to source.

Some observations were made and recorded on the hurricane wave which swept in from the southeast with the hurricane on the afternoon of September 21st. This wave manifested itself as a great surge of sea-water temporarily raising the level of the lower Connecticut River to a considerable degree, as was the case in other tidal estuaries in its path.

A series of wave crest marks was also established by the field men, extending from Long Island Sound to as far upstream as Chester and Hamburg Cove. (A list of these marks, with their locations and elevations, is included in this report.)

High-water and wave-crest marks, as well as gauge-station points, have been numbered for ready reference. All points and marks on the west shore bear even numbers beginning with "2" at Old Saybrook and ending with "152" at Windsor Locks, while the points and marks on the east shore bear odd numbers, beginning with "3" at Lyme and ending with "101" at Thompsonville.

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* Official gauges in operation regularly.

Wave-crest marks were numbered similarly except that the letter "T" was prefixed as a distinguishing symbol. High-water marks established on tributaries of the Connecticut, numbered in sequence, were coded as follows:

FR - FARMINGTON RIVER
WB - WEST BRANCH, FARMINGTON RIVER
SR - STILL RIVER
MR - MAD RIVER
SB - SANDY BROOK
LR - LITTLE RIVER
C - COCHINCHAUG RIVER
SA - SALMON RIVER

Distances along the Connecticut River to gauge station points and marks were computed in land-miles from the Saybrook Jetty using U. S. Coast & Geodetic Survey hydrographic charts and U. S. Engineers' tables. Distances on tributaries were scaled from U. S. Geological Survey topographic maps.

A total of fifty-four high-water marks was established throughout the Farmington River Valley, in addition to those in the Connecticut River Valley, after flood waters had receded. Thirty-four of these marks were on the main Farmington River, six on the west branch of that river, four on Still River, six on Mad River, and four on Sandy Brook. The elevations of these points was referenced by the Ground Water Survey to mean sea-level datum by third-order leveling. Procedures of establishing, recording, grading and checking followed those used for the Connecticut River data.

Through the co-operation of the Collins Company, the Connecticut Power Company, and the Hartford Electric Light Company, valuable river-stage measurements were obtained at their respective dams at Collinsville, Unionville, and East Granby.

The altitude of the zero of the gauge at each of these three points was referenced to mean sea-level datum by this Survey from established bench-marks.

Considerable additional data relating to the Farmington River Valley Flood of March, 1936 and to the Great Flood in the Connecticut, may be found in a report prepared by this Survey.* This report is on file in the office of the State Water Commission.

(d) Emergency Investigation of Stream Conditions at Dams.

Supplementing the data on stages of the Connecticut River, needed emergency information as to stream conditions near and at various dams in the State was requested of this Survey by the State Water Commission. Such information was obtained by the Survey, with the approval of the Works Progress Administration, through field inspections covering numerous dams located in and outside of the Connecticut River Valley. The information thus obtained was reported directly to the State Water Commission on an emergency basis and is not included in this report.

As the devastation wrought by the hurricane and flood waters became revealed, however, the need of more broadly scaled information regarding dams became apparent; and, at the recommendation of the State Water Commission, a more extensive program, calling for the inventorying of dams within the State, was approved. This work, in which the Works Progress Administration.

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* "The Great Flood of March, 1936, in Connecticut, with Supplementary Data on the Farmington River Valley Flood of March, 1936."
Prepared by The Connecticut Ground Water Survey - Dated June, 1938

participated, was set up on a formal basis as soon as the emergency was over.

(e) History and Organization of the Connecticut Ground Water Survey.

At the suggestion of the Director of the Connecticut State Water Commission, the Ground Water Survey was started on October 1, 1934 as a Federal Emergency Relief Administration project, and has been operated since November 22, 1935, by the Division of Professional and Service Projects of the Works Progress Administration as, successively, Official Projects 65-15-861, 465-15-3-26, and 665-15-3-116.

Set up to carry out a part of the State's program of long-range hydrologic studies, the Connecticut Ground Water Survey was sponsored by the Connecticut State Planning Board in co-operation with the State Water Commission from its beginning until July 1, 1937, when it came directly under the sponsorship of the latter body. Under a co-operative agreement between the State Water Commission and the Geological Survey, U. S. Department of the Interior, technical direction of certain parts of the work of the Survey has been furnished by the latter organization.

William H. Brothwell, who has been in charge of the Sponsor's program since its inception, and has supervised the Ground Water Survey project since 1934, directed the flood survey.

(f) Acknowledgments

The assistance and co-operation of the administrative and engineering staffs of the Connecticut State Water Commission have been greatly appreciated. Thanks is due the Engineering Department of the City of Hartford for furnishing the description, location, and elevation of various high-water marks in Hartford and nearby towns, as well as for furnishing maps of various towns in the Metropolitan District.

Acknowledgment and appreciation is extended to Mr. B. L. Bigwood, District Engineer, U. S. Geological Survey, Water Resources branch at Hartford, for river-discharge, certain river-stage records, and precipitation data; to the Engineering Department of the City of Middletown for its fine co-operation during the flood in furnishing men, base space, and incidentals, as well as for assistance after the flood in furnishing elevation data and maps; to various local observers for valuable aid; and to operators of industrial concerns and power plants and public utilities who furnished private records upon which several flood-stage graphs have been based.

The Survey wishes to acknowledge also the courtesy shown it by the Essex Yacht Club and the Essex Paint and Marine Company in supplying a photo-print of a Stormograph record showing the barometric pressure before, during, and following the hurricane.

Thanks are due the Middletown office of the Connecticut Power Company for two prints of the town of Cromwell.

Recognition is gratefully accorded the staff of the Ground Water Survey, who spent long hours in the field.

The assistance and co-operation of Mr. Vincent J. Sullivan, Administrator of the Works Progress Administration and of the staff of the Professional and Service Division, under whose supervision the project was operated, are also appreciatively acknowledged.

(g) Collaboration with Other Agencies

A number of organizations and individuals supplied the Ground Water Survey with invaluable material and assistance in the flood surveys. By arrangement, several public agencies and concerns co-operated in obtaining flood measurements and related data for their joint use. Advance copies of much of the technical material contained in this report were furnished those agencies and concerns which thus collaborated. The agencies and the types of data furnished them are as follows:

United States Geological Survey, Hartford branch - river-gauge readings;

Hartford Electric Light Company-elevations of high-water marks for the 1936 and 1938 floods at the Company's dam at East Granby;

The Connecticut Company, Middletown office, - a plotting on one of its own prints of the area flooded in the town of Cromwell together with flood-crest elevations at various points in that town.

In addition, the Survey has furnished the Engineering Department of the City of Hartford with descriptions and stage measurements taken at twenty-two gauging stations.

A complete list of all high-water marks with their location and elevation on the Connecticut and Farmington rivers has been given the Hartford branch of the United States Geological Survey for use in completing its profile of flood crests; and information regarding the location and elevation of many high-water marks for use in flood control studies has been furnished to the United States Engineer Office at Providence, R. I.

NOTES

P. 91	The map referred to under the heading, "Remarks," is on file at the offices of the Connecticut State Water Commission entitled, "Location of Measuring Points at Wilson, Windsor, Connecticut, Flood of September, 1938.
P. 107 & 108	All items not bearing special notations represent data gathered by the Connecticut Ground Water Survey.
P. 110	In column captioned "Set by," "Copeland" refers to Mr. W. R. Copeland, Chief Engineer of the Connecticut State Water Commission, who furnished certain data obtained by the Commission.

II. GENERAL DISCUSSION

II GENERAL DISCUSSION

(a) Precipitation

There is general agreement that the cause of the flood of September, 1938, was the tremendous concentration of rainfall during the five-day period from September 17 to 21 inclusive, whereas in March, 1936, it was the combination of an abnormally heavy rainfall combined with the melting of the excessive amount of snow which had fallen during January and February of that year that caused the greatest flood in the history of New England.

The amount and distribution of rainfall recorded during the period September 17-21 has been the subject of considerable study by other agencies and authorities. While the Connecticut Ground Water Survey has made extensive contributions of precipitation records not previously available, in connection with its ground-water work, the interpretation of such data with regard to surface waters is outside the scope of this agency. It is sufficient, therefore, to quote from a paper which was read at a meeting of the Connecticut Society of Civil Engineers by Mr. B. L. Bigwood, District Engineer, Geological Survey, U. S. Department of the Interior, at Hartford, entitled "The Hurricane Floods of September, 1938, in Connecticut." Mr. Bigwood's paper reads, in part, as follows:

> "This great flood developed from a tremendous concentration of precipitation over a five-day period from September 17 to 21, inclusive. The hurricane terminated the rainfall abruptly as you will recall. This hurricane, in itself, could be made the subject of a very interesting paper but I have neither the time nor qualifications to hold forth at any length with regard to that phenomenon.
>
> "Centers of heavy precipitation east of Hartford and over central Massachusetts may be observed. Maximum rainfall in both these centers was just over 17 inches. Maximum rainfall for the entire flood area as shown on this map was 17.07 inches at Camp Buck of the Civilian Conservation Corps, near Portland, Connecticut. Except in the extreme eastern portion of Connecticut the five-day rainfall was nowhere in the State less than 8 inches.
>
> "At some stations in the areas of heavy precipitation, 24-hour rainfall of as much as 11.83 inches was observed, with a rate of fall at times of nearly two inches per hour. And this heaviest concentration came generally at the end of the period after 3 or 4 days of heavy, soaking rains. Normal stream channels, already full to overflowing, were entirely inadequate to carry off this tremendous volume

of additional water and consequently reached steadily to new record levels and into new overflow area, while developing a power of destruction far surpassing previous floods.

"Heaviest run-off generally occurred in the eastern half of the State. The upper Quinebaug, the Hop, Willimantic, and Natchaug Rivers, the Shetucket, Yantic, Salmon, Hockanum, Scantic, and their tributaries, all raged through their valleys in huge volume, wrecking many dams, bridges, highways, railways, and other structures while inundating new areas of the land, and all over the western side of the State, new stage and flow records were established. The great Connecticut River fed by the tremendous volumes of water pouring from its lower tributaries attained a level less than $2\frac{1}{2}$ feet under the record crest of March, 1936.

"The surprising feature of this flood is that it developed at a season of the year when the maximum amount of precipitation is required to produce a given flood. Every natural deterrent to a great flood was present; absorption capacity of the ground was maximum; evaporation must have been high; vegetation was taking its share of moisture; and ponds, swamps, stream channels and other reservoirs were relatively low, providing a near maximum amount of natural storage and control."

The following precipitation tables, prepared from records of the U. S. Geological Survey and from precipitation records of the Connecticut Ground Water Survey, illustrate the vast amount of rainfall which occurred during the period September 17-21, inclusive. The resultant discharge at Thompsonville (Enfield), and Hartford, Connecticut, as tabulated by the U. S. Geological Survey is also presented in the tables following.

NEW ENGLAND TOTAL PRECIPITATION*

September 17 to 21, inclusive

1938

Massachusetts

Amherst	11.96	Middlefield	10.61
Ashley Pond	10.65	Monson	12.39
Athol	12.31	Montague City	10.80
Baldwinsville	14.94	Montgomery	10.33
Barre	17.03	New Braintree	12.34
Blandford	10.34	New Salem	9.79
Bondsville	11.38	North Rutland	13.92
Borden Brook Reservoir	11.27	Otis Reservoir	11.40
Carmody Reservoir	13.10	Peru	9.12
Chester	10.31	Petersham	13.12
Chesterfield	10.87	Phillipston	13.25
Colrain	9.28	Plainfield	9.82
Cummington	8.91	Provin Mountain Res.	8.72
East Northfield	10.06	Rutland	12.26
Enfield	11.61	Shelburne Falls	9.31
Fryville	11.20	Shutesbury	10.88
Gardner	14.52	South Deerfield	10.48
Greenfield	10.06	Springfield	10.18
Hardwick	11.43	Springfield	10.04
Heath	9.74	Springfield	10.43
Holyoke	9.77	Turners Falls	10.73
Hoosac Tunnel	9.91	Ware Center	12.79
Hubbardston	15.60	Ware River Intake	13.55
Knightville	10.07	Warren	12.25
Lake Pleasant	10.55	Warwick	10.76
Ludlow Reservoir	12.69	Wendell	10.78
West Brookfield	13.74		

* Data from "The Hurricane Floods of September, 1938": U.S. Geological Survey. Water Supply Paper.

NEW ENGLAND TOTAL PRECIPITATION*

September 17 to 21, inclusive

1938

Vermont

Bellows Falls	6.53	Ricker Mills	3.97
Bethel	5.29	Rochester	5.53
Bloomfield	4.22	St. Johnsbury	4.17
Brattleboro	8.22	Searsburg Mountain	8.50
Canaan	2.86	Searsburg Station	8.88
Cavendish	7.26	Somerset	8.20
Chelsea	4.99	South Newberry	4.83
East Barnet	4.59	Vernon	8.80
East Haven	4.09	West Burke	3.19
East Ryegate	5.35	West Hartford	5.51
Gallup Mills	3.94	Wheelock	3.69
Gilman	4.89	White River Junction	5.38
Mays Mill	8.57	White River Junction	5.53
McIndoes Falls	4.85	Whitingham	9.44
Newfane	8.00	Wilder	5.48
North Tunbridge	4.84	Wilmington	10.25
Plymouth	7.51	Windsor	6.80
Readsboro	8.89	Woodstock	5.95

New Hampshire

Bethlehem	5.69	Marlow	7.75
Claremont	6.80	Minnewawa	9.20
Dixville Notch	3.52	Mount Washington	8.29
First Connecticut Lake	2.97	Newport	7.29
Fitzwilliam	9.19	North Grantham	7.43
Franconia	4.47	North Stratford	4.37
Franconia	6.06	Pierce Bridge	7.57
Glencliff	7.60	Randolph	6.33
Hanover	5.43	Twin Mountain	6.01
Keene	6.52	West Canaan	6.64
Keene	7.44	West Lebanon	5.60
Lancaster	2.85	West Stewartstown	2.89
York Pond	4.30		

* Data from "The Hurricane Floods of September, 1938", U.S. Geological Survey. Water Supply Paper.

PRECIPITATION IN CONNECTICUT *

September 17 to 21, inclusive

1938

Avon	8.98
Barkhamsted	9.95
Barkhamsted (Camp White)	11.19
Bloomfield	9.69
Bristol	10.32
Burlington (Whigville)	10.20
Burlington (Phelps Brook Dam)	9.93
Colchester	9.96
East Granby	9.72
East Hartland	11.58
East Hartland (Camp Robinson)	11.45
Enfield	11.00
Glastonbury	15.93
Haddam	13.76
Hartford (U.S. Weather Bureau)	13.17
Hartford (City of Hartford)	12.58
Manchester	16.01
Middletown	13.44
New Hartford	9.80
Newington	11.88
Portland (Camp Buck)	17.07
Southington	11.90
West Hartford	10.16
West Hartland	11.30
Windsor	11.47

* Data obtained by Connecticut Ground Water Survey.

DISCHARGE OF CONNECTICUT RIVER AT THOMPSONVILLE, CONN.*
September, 1938

	Sept. 19		Sept. 20		Sept. 21		Sept. 22		Sept. 23	
Hr.	Ft.	Sec. Ft.	Ft.	Sec. Ft.	Ft.	Sec. Ft.	Ft.	Sec. Ft.	Ft.	Sec. Ft.
2	2.33	15,600	2.86	22,000	5.82	73,500	12.75	203,000	14.40	236,000
4	2.32	15,500	3.06	25,000	6.10	78,600	13.35	215,000	14.37	235,400
6	2.20	14,200	3.25	28,000	6.32	82,800	13.80	224,000	14.30	234,000
8	2.22	14,400	3.44	31,200	6.66	89,000	14.00	228,000	14.22	232,000
10	2.23	14,500	3.66	38,300	7.09	97,000	14.09	230,000	14.10	230,000
N	2.19	14,100	3.99	40,500	7.50	105,000	14.15	231,000	13.96	227,000
2	2.13	13,400	4.18	43,900	7.97	113,000	14.24	232,800	13.80	224,000
4	2.12	13,300	4.36	47,200	8.58	125,000	14.30	234,000	13.60	220,000
6	2.17	13,900	4.62	51,900	9.32	138,000	14.33	234,600	13.40	216,000
8	2.24	14,600	4.84	55,800	9.92	149,000	14.35	235,000	13.14	211,000
10	2.36	16,000	5.39	65,900	10.68	164,000	14.38	235,600	12.92	206,000
M	2.60	18,700	5.63	70,400	11.71	183,000	14.40	236,000	12.67	201,000

	Sept. 24		Sept. 25		Sept. 26		Sept. 27		Sept. 28	
2	12.43	197,000	8.94	131,000	6.48	85,700	5.18	61,700	4.43	48,000
4	12.17	191,000	8.65	126,000	6.36	83,500	5.09	60,000	4.39	47,300
6	11.87	185,000	8.39	121,000	6.24	81,200	5.02	58,700	4.36	46,800
8	11.58	181,000	8.14	117,000	6.11	78,800	4.94	57,200	4.34	46,400
10	11.27	174,000	7.88	112,000	6.00	76,800	4.88	56,100	4.32	46,100
N	10.97	168,000	7.68	108,000	5.90	75,000	4.81	54,900	4.29	45,500
2	10.67	163,000	7.48	105,000	5.77	72,500	4.73	53,400	4.26	45,000
4	10.38	158,000	7.30	101,000	5.65	70,300	4.68	52,500	4.21	44,100
6	10.09	153,000	7.12	97,600	5.57	68,900	4.62	51,500	4.16	43,200
8	9.83	148,000	6.96	94,500	5.47	67,000	4.58	50,700	4.09	41,900
10	9.48	142,000	6.79	91,500	5.37	65,100	4.53	49,800	4.01	40,500
M	9.21	136,000	6.63	88,500	5.28	63,500	4.48	48,900	3.92	38,900

Gauge height in feet, and discharge, in second-feet 1938

* Data from "The Hurricane Floods of September, 1938": U.S. Geological Survey, Water-Supply Paper.

DISCHARGE OF CONNECTICUT RIVER AT HARTFORD, CONN.*
September, 1938

	Sept. 19		Sept. 20		Sept. 21		Sept. 22		Sept. 23	
Hr.	Ft.	Sec. Ft.	Ft.	Sec. Ft.	Ft.	Sec. Ft.	Ft.	Sec. Ft.	Ft.	Sec. Ft.
2	5.19	16,600	6.33	23,600	17.05	71,300	26.20	193,000	34.30	251,000
4	5.02	16,700	6.57	27,200	17.90	77,400	27.20	206,000	34.55	251,000
6	4.91	16,900	6.93	29,400	18.65	83,900	28.20	214,000	34.80	250,000
8	5.02	15,900	7.65	31,200	19.35	90,400	29.15	222,000	35.00	248,000
10	5.27	16,100	8.75	34,300	20.00	98,600	30.00	228,000	35.15	247,000
N	5.32	16,200	9.83	37,800	20.75	108,000	30.80	234,000	35.30	245,000
2	5.29	16,100	10.90	41,300	21.47	118,000	31.50	238,000	35.38	242,000
4	5.32	17,000	11.85	44,700	22.30	129,000	32.10	242,000	35.42	239,000
6	5.30	17,100	12.85	48,700	22.95	139,000	32.65	245,000	35.41	235,000
8	5.51	17,900	13.80	52,900	23.60	152,000	33.15	248,000	35.40	232,000
10	5.82	19,000	14.90	58,400	24.35	163,000	33.60	250,000	35.35	229,000
M	6.04	20,100	16.10	65,300	25.25	179,000	33.95	251,000	35.27	225,000

	Sept. 24		Sept. 25		Sept. 26		Sept. 27		Sept. 28	
2	35.15	221,000	31.50	159,000	26.20	106,000	21.25	74,600	17.00	57,500
4	34.97	216,000	31.10	153,000	25.75	103,000	20.85	72,200	16.66	56,000
6	34.80	213,000	30.65	148,000	25.30	100,000	20.50	70,500	16.31	55,200
8	34.55	208,000	30.25	143,000	24.90	96,500	20.15	69,200	16.00	54,500
10	34.30	202,000	29.80	139,000	24.50	94,400	19.75	67,500	15.72	53,800
N	34.05	198,000	29.35	135,000	24.05	91,300	19.40	66,100	15.48	53,100
2	33.70	191,000	28.90	129,000	23.65	88,700	19.10	64,700	15.22	52,300
4	33.40	187,000	28.45	125,000	23.25	86,400	18.70	63,500	14.98	51,300
6	33.05	181,000	27.95	120,000	22.83	83,800	18.35	61,800	14.72	50,400
8	32.70	177,000	27.55	116,000	22.43	81,500	18.00	60,200	14.48	49,400
10	32.30	171,000	27.10	112,000	22.03	79,000	17.68	59,000	14.20	48,200
M	31.90	165,000	26.65	109,000	21.63	77,000	17.35	58,000	13.90	47,000

Gauge height in feet, and discharge, in second-feet 1938

* Data from "The Hurricane Floods of September, 1938": U.S. Geological Survey. Water-Supply Paper

(b) Ground Water Conditions.

The effects of the rainfall which commenced on September 17th appeared immediately in a slight rise of ground-water levels. This rise in levels apparently accelerated as the storm continued, with the highest levels being reached September 22 to 27. In some cases the high levels did not mean a correspondent recharge of ground water. This is particularly true in wells which reached high points on September 21 and 22. However, the largest part of the rise did represent actual recharge of ground water as shown by the fact that the levels remained high well into October.

The following water levels, measured by the Connecticut Ground Water Survey at selected wells, illustrate the trends as outlined above.

Similar water-level measurements in some 376 selected wells were taken and reported by this Survey[1] under a program of ground-water level measurements.

GROUND WATER LEVELS

WHv. 324. W. Ames - Abandoned dug well, Corner Jones Hill Road, Route 122 West Haven. Diameter 30 inches, depth 16.0 feet. Measuring point is a red paint mark upper sharp edge of well curb on west side at land surface. Source formation is stratified drift.

Water level in feet below measuring point.

Date	Water level	Date	Water level	Date	Water level
1938		1938		1938	
Aug. 16	9.81	Sept.27	7.07	Oct. 18	9.47
Sept. 6	11.40	Oct. 3	8.19	31	9.94
19	11.61	10	8.88		

St. 83. T. H. Krueger - Abandoned dug well, North Main Street, Stratford. Diameter 36 inches, depth 27.9 feet. Measuring point is yellow kiel mark on tile curbing 7.0 feet above land surface. Source formation is stratified drift.

Water level in feet below measuring point.

Date	Water level	Date	Water level	Date	Water level
1938		1938		1938	
Aug. 15	15.50	Sept.27	12.78	Oct. 31	16.44
Sept. 6	17.73	Oct. 5	14.68		
19	17.47	17	15.72		

1 "Ground Water Levels in Connecticut" - January 1, 1938 to June 30, 1939. Report #GW-7.

Mt. 163. J. Schmidt - Abandoned drilled well, at 3 Flower Avenue Middletown. Diameter 6 inches, depth 80.05 feet. Measuring point is a yellow kiel mark top of casing 0.4 feet above land surface. Source formation is sandstone.

Water level in feet below measuring point.

Date	Water level	Date	Water level	Date	Water level
1938		1938		1938	
Aug. 1	7.56	Sept. 7	7.91	Oct. 6	5.91
2	7.61	8	7.95	7	6.04
3	7.65	9	7.99	8	6.14
4	7.69	10	8.02	9	6.20
5	7.72	11	8.05	10	6.24
6	7.74	12	8.09	11	6.37
7	7.75	13	8.13	12	6.41
8	7.77	14	8.16	13	6.47
9	7.73	15	8.17	14	6.54
10	7.64	16	8.14	15	6.62
11	7.52	17	8.07	16	6.67
12	7.38	18	7.62	17	6.73
22	7.40	19	7.31	18	6.78
23	7.42	20	6.28	19	6.82
24	7.44	22	3.60	20	6.88
25	7.53	23	3.75	21	6.95
26	7.57	24	3.96	22	7.03
27	7.64	25	4.14	23	7.07
28	7.66	26	4.42	24	7.14
29	7.68	27	4.59	25	7.18
30	7.69	28	4.78	26	7.13
31	7.70	29	5.04	27	7.09
Sept. 1	7.73	30	5.28	28	7.15
2	7.74	Oct. 1	5.37	29	7.18
3	7.76	2	5.45	30	7.23
4	7.77	3	5.57	31	7.29
5	7.84	4	5.67		
6	7.88	5	5.80		

OS. 35. C. P. Dietch - Abandoned dug well, Ayers Point, Old Saybrook. Diameter 36 inches, depth 19.7 feet. Measuring point outer point of paint mark top of curb at land surface. Source formation is stratified drift.

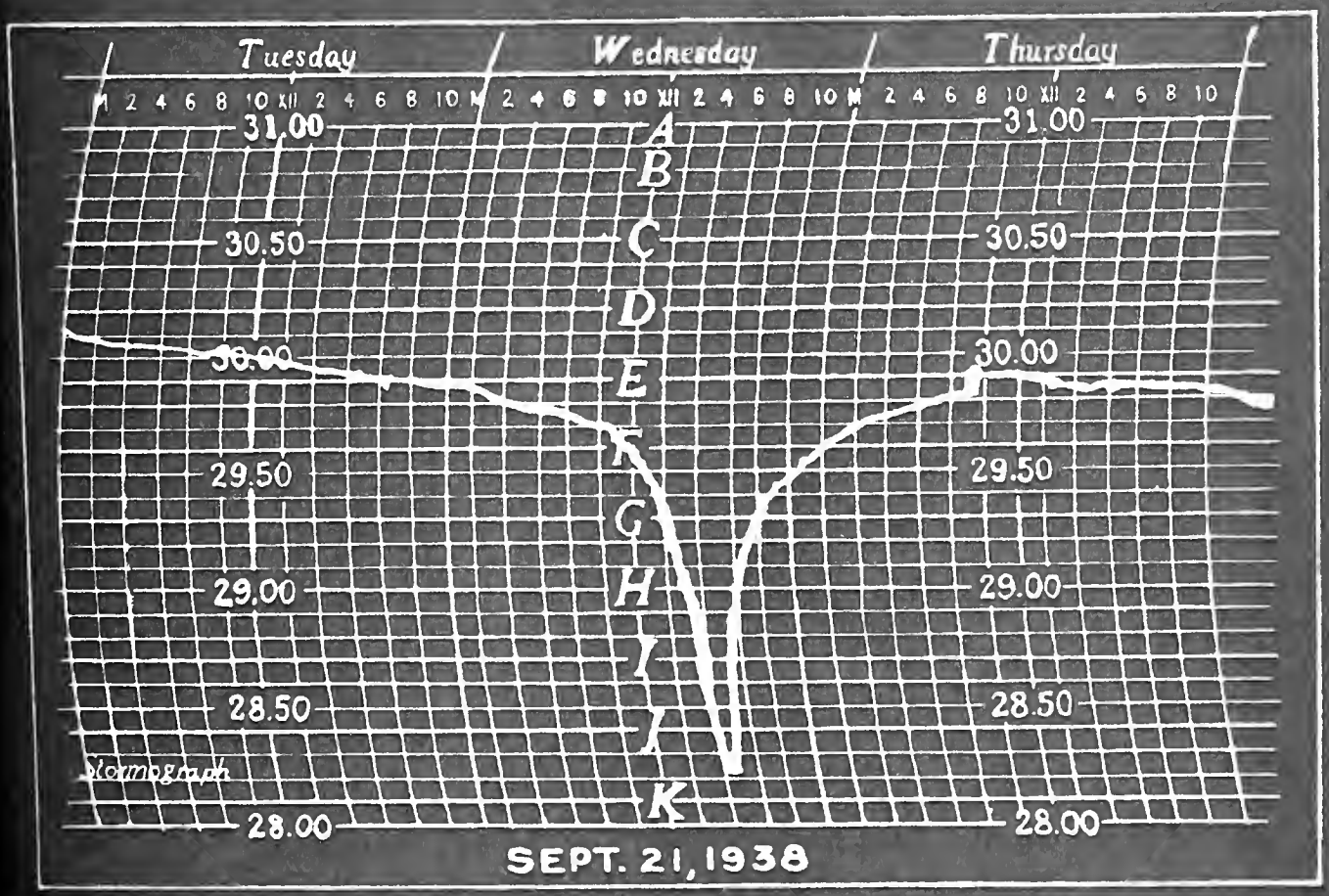
Water level in feet below measuring point

Date	Water level	Date	Water level	Date	Water level
1938		1938		1938	
Aug. 9	15.07	Sept. 20	15.02	Oct. 12	13.89
23	14.90	27	11.20	26	15.84
Sept. 7	15.80	Oct. 5	13.39		

Wt. 792. M. K. Moore - Abandoned drilled well, Scotch Cap Road, Quaker Hill, Waterford. Diameter 6 inches, depth 40.7 feet. Measuring point is a yellow kiel mark top of steel casing 0.5 feet below land surface. Source formation is gneiss.

Water level in feet below measuring point.

Date	Water level	Date	Water level	Date	Water level
1938		1938		1938	
Aug. 1	14.73	Sept. 1	15.97	Oct. 2	14.63
2	14.86	2	16.13	3	14.67
3	15.00	3	16.27	4	14.70
4	15.14	4	16.43	5	14.73
5	15.27	5	16.60	6	14.83
6	15.35	6	16.77	7	14.93
7	15.43	7	16.91	8	15.00
8	15.50	8	17.07	9	15.07
9	15.47	9	17.23	10	15.17
10	15.60	10	17.40	11	15.28
11	15.42	11	17.54	12	15.35
12	15.47	12	17.65	13	15.45
13	15.47	13	17.77	14	15.47
14	15.49	14	17.89	15	15.53
15	15.53	15	17.92	16	15.60
16	15.59	16	18.07	17	15.67
17	15.16	17	18.20	18	15.73
18	14.97	18	18.30	19	15.77
19	14.85	19	18.13	20	15.87
20	14.83	20	17.70	21	15.97
21	14.81	21	16.70	22	16.07
22	14.79	22	15.79	23	16.17
23	14.90	23	15.25	24	16.13
24	14.97	24	14.85	25	15.85
25	15.11	25	14.73	26	15.79
26	15.25	26	14.63	27	15.67
27	15.36	27	14.61	28	15.56
28	15.50	28	14.63	29	15.47
29	15.60	29	14.67	30	15.36
30	15.71	30	14.70	31	15.25
31	15.83	Oct. 1	14.66		



COPY OF PHOTO OF ORIGINAL STORMOGRAPH READINGS

STORMOGRAPH LOCATED AT ESSEX YACHT CLUB, ESSEX PAINT AND MARINE COMPANY

III. GENERAL LISTING OF WATER STAGE MEASUREMENT STATIONS ON THE CONNECTICUT RIVER

GENERAL LISTING OF WATER STAGE MEASUREMENT STATIONS
ON THE CONNECTICUT RIVER
FLOOD OF SEPTEMBER 1938
SHOWING
LOCATION, CREST ELEVATION AND TIME OF CREST

NO.	LOCATION	TIME OF FLOOD CREST DATE	FROM	TO	ELEVATION M.S.L. (in feet)
	Essex				
6	Essex Paint & Marine Co.	Sept. 24	12:00Noon	12:15PM	8.824
	Middletown	Sept. 23	11:45PM		
48	Feldspar Co. dock	Sept. 24		1:15AM	25.34
	Middletown				
52	Narrows opposite Bodkin	Sept. 24	12:30AM		25.751
	Middletown				
58	Narrows near Town Farm	Sept. 23	10:04PM	11:04PM	26.214
	Middletown	Sept. 23	8:30PM		
64	Hartford Ave. Underpass	Sept. 24		1:00AM	27.42
	Cromwell Center				
70	Near Railroad Station	Sept. 24	12:15AM		28.548
	Cromwell				
72	Wall St. and River Road	NO READINGS AT CREST			29.070**
	East Hartford				
79*	C.L. Pole A 34	Sept. 23	3:15PM	9:45PM	34.27
	East Hartford				
83*	Gilman at King Street	Sept. 23	3:00PM	7:00PM	35.87
	Rocky Hill				
84	Connecticut Foundry Co.	Sept. 23	6:56PM		31.806
	Rocky Hill				
86	Grey House north of Connecticut Foundry Co.	Sept. 23	5:33PM		31.909
	Rocky Hill				
90	Silas Deane Highway	Sept. 23	10:15PM		32.554
	Wethersfield				
92	Silas Deane south of Mill Street	Sept. 23	9:30PM		32.546
	Wethersfield				
94	Middletown Ave. Warner Place	NO READINGS AT CREST			32.518**

* - East Shore of Connecticut River
** - Determined by High Water Mark

NO.	LOCATION	TIME OF FLOOD CREST DATE	FROM	TO	ELEVATION M.S.L. (in feet)
96	Wethersfield Elm Street	NO READINGS AT CREST			32.442**
98	Wethersfield Main St. near Railroad	NO READINGS AT CREST			32.720**
101 *	Thompsonville Bigelow-Sanford Carpet Co.	Sept. 23	6:00AM		55.983
101A*	Enfield Enfield Dam U.S. Geological Survey	Sept. 22 Sept. 23	11:00PM	2:00AM	52.88
102	Wethersfield Broad & Marsh Street	NO READINGS AT CREST			32.786**
110A	Hartford U.S. Weather Bureau	Sept. 23	5:00PM		34.88
124	Windsor Wilson Fire Station	Sept. 23	6:20PM	7:50PM	36.35
128	Windsor Wilson Ave.	Sept. 23	2:15PM	7:00PM	36.52
134	Windsor Railroad Underpass	Sept. 23	5:30PM		36.83
138	Windsor Farmington River Bridge	Sept. 23	3:45PM	5:30PM	36.48
140	Windsor Locks Conn. Light & Power Co.	Sept. 23	11:00AM	5:00PM	38.17
150	Windsor Locks The Montgomery Co.	Sept. 23	11:00AM	1:00PM	38.40

* - East Shore of Connecticut River
** - Determined by High Water Mark

Total - Gauges established

East Shore	4
West Shore	22
Total	26

IV. DESCRIPTION OF MEASUREMENT STATIONS AND TABULATION OF GAUGE HEIGHTS

Gauge Heights at Essex, Connecticut
Essex Paint and Marine Company Garages
Point Number 6
Approximately 7.1 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 9:24AM, September 22 to 11:00AM, September 25, 1938.

FLOOD CREST ALTITUDE:- 8.824 feet m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 6-1 Bottom point of galvanized iron triangle at the northeast corner of north face at east end of east garage, garage at end of Novelty Lane and southwest of Essex Paint and Marine Company. Elevation 8.319 feet, m.s.l.

Station 6-2 Bottom point of galvanized iron triangle on north face at east end of west garage about 50 feet west of Station 6-1. Elevation 10.074 feet, m.s.l.

REMARKS:-

Measurements taken at these points show effect of tides as well as flood crest during a period of very high river discharge.

Altitude of stations determined by the Connecticut Ground Water Survey.

Readings converted to mean sea level by the Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Essex, Connecticut
Essex Paint and Marine Company Garages
Point Number 6

September 22 to September 25, 1938

September 22

Station 6-1

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
9:24AM	3.0	5.319
10:00	2.9	5.419
10:15	2.9	5.419
10:30	2.9	5.419
10:45	2.85	5.469
11:00	2.85	5.469
11:15	2.85	5.469
11:30	2.9	5.419
11:45	2.9	5.419
12:00Noon	2.9	5.419
1:15PM	2.95	5.369
2:00	3.0	5.319
5:00	2.75	5.569
9:30	1.60	6.719
9:45	1.60	6.719
10:00	1.55	6.769
10:15	1.50	6.819
10:30	1.45	6.869
10:45	1.45	6.869
11:00	1.40	6.919
11:15	1.40	6.919
11:30	1.35	6.969
11:45	1.35	6.969

September 23

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
12:00Mid	1.30	7.019
12:15AM	1.30	7.019
12:30	1.30	7.019
12:45	1.30	7.019
1:00	1.30	7.019
1:15	1.30	7.019
1:30	1.30	7.019
1:45	1.35	6.969
2:00	1.35	6.969
2:15	1.30	7.019
2:30	1.30	7.019
2:45	1.30	7.019
3:00	1.30	7.019
3:15	1.25	7.069
3:30	1.25	7.069
3:45	1.25	7.069
4:00	1.25	7.069
4:15	1.25	7.069

September 23 (Continued)

Station 6-1

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
4:30AM	1.30	7.019
4:45	1.30	7.019
5:00	1.35	6.969

Station 6-2

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
5:00AM	2.95	7.124
5:15	2.95	7.124
5:30	2.90	7.174
5:45	2.90	7.174
6:00	2.85	7.224
6:15	2.80	7.274
6:30	2.75	7.324
6:45	2.70	7.374
7:00	2.70	7.374
7:15	2.65	7.424
7:30	2.60	7.474
7:45	2.50	7.574
8:00	2.45	7.624
8:15	2.40	7.674
8:30	2.40	7.674
8:45	2.30	7.774
9:00	2.25	7.824
9:15	2.15	7.924
9:30	2.10	7.974
9:45	2.05	8.024
10:00	2.00	8.074
10:15	2.00	8.074
10:30	1.95	8.124
10:45	1.90	8.174
11:00	1.90	8.174
11:15	1.85	8.224
11:30	1.85	8.224
11:45	1.85	8.224
12:00Noon	1.80	8.274
12:15PM	1.80	8.274
12:30	1.80	8.274
12:45	1.80	8.274
1:00	1.80	8.274
1:15	1.80	8.274
1:30	1.80	8.274
1:45	1.85	8.224
2:00	1.85	8.224
2:15	1.85	8.224

Gauge Heights at Essex, Connecticut (Continued)

September 23 (Continued)

Station 6-2

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
2:30PM	1.85	8.224
2:45	1.85	8.224
3:00	1.90	8.174
3:15	1.90	8.174
3:30	1.95	8.124
3:45	1.95	8.124
4:00	1.95	8.124
4:15	1.95	8.124
4:30	1.95	8.124
4:45	1.95	8.124
5:00	1.95	8.124
5:15	1.95	8.124
5:30	1.95	8.124
5:45	1.9	8.174
6:00	1.9	8.174
6:15	1.9	8.174
6:30	1.85	8.224
6:45	1.85	8.224
7:00	1.85	8.224
7:15	1.8	8.274
7:30	1.8	8.274
7:45	1.8	8.274
8:00	1.7	8.374
8:15	1.7	8.374
8:30	1.65	8.424
8:45	1.65	8.424
9:00	1.65	8.424
9:15	1.50	8.574
9:30	1.50	8.574
9:45	1.45	8.624
10:00	1.45	8.624
10:15	1.45	8.624
10:30	1.4	8.674
10:45	1.4	8.674
11:00	1.35	8.724
11:15	1.35	8.724
11:30	1.35	8.724
11:45	1.40	8.674

September 24

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
12:00Mid	1.40	8.674
12:15AM	1.40	8.674
12:30	1.40	8.674
12:45	1.40	8.674
1:00	1.40	8.674
1:15	1.45	8.624
1:30	1.45	8.624

September 24 (Continued)

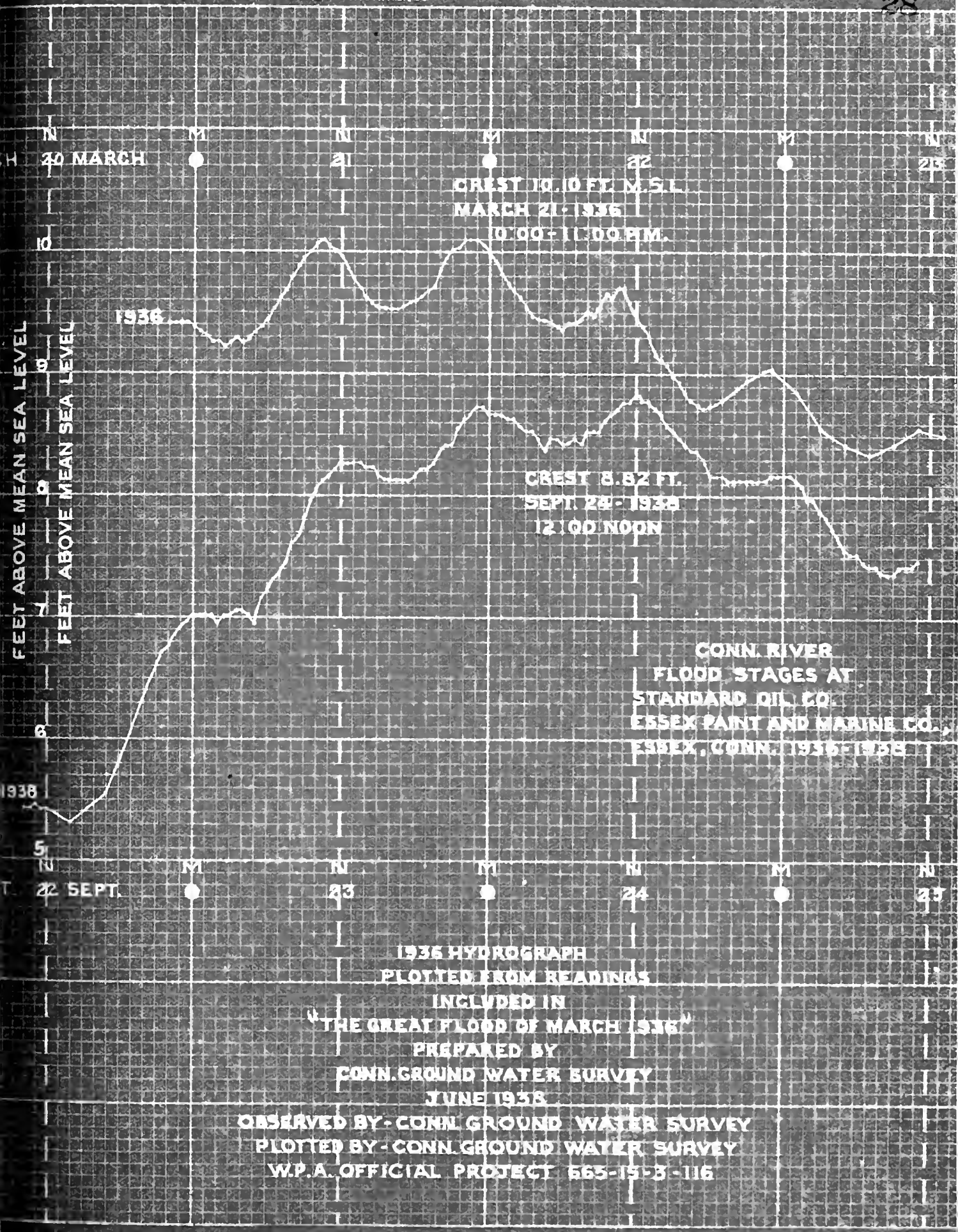
Station 6-2

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
1:45AM	1.45	8.624
2:00	1.45	8.624
2:15	1.50	8.574
2:30	1.50	8.574
2:45	1.50	8.574
3:00	1.55	8.524
3:15	1.55	8.524
3:30	1.55	8.524
3:45	1.60	8.474
4:00	1.60	8.474
4:15	1.60	8.474
4:30	1.70	8.374
4:45	1.65	8.424
5:00	1.60	8.474
5:15	1.60	8.474
5:30	1.60	8.474
5:45	1.60	8.474
6:00	1.65	8.424
6:15	1.65	8.424
6:30	1.65	8.424
6:45	1.65	8.424
7:00	1.60	8.474
7:15	1.60	8.474
7:30	1.65	8.424
7:45	1.55	8.524
8:00	1.55	8.524
8:15	1.60	8.474
8:30	1.55	8.524
8:45	1.50	8.524
9:00	1.50	8.524
9:15	1.45	8.624
9:30	1.45	8.624
9:45	1.40	8.674
10:00	1.40	8.674
10:15	1.35	8.724
10:30	1.35	8.724
10:45	1.30	8.774
11:00	1.30	8.774
11:15	1.30	8.774
11:30	1.30	8.774
11:45	1.30	8.774
12:00Noon	1.25	8.824
12:15PM	1.25	8.824
12:30	1.30	8.774
12:45	1.30	8.774
1:00	1.30	8.774
1:15	1.35	8.724
1:30	1.35	8.724

Gauge Heights at Essex, Connecticut (Continued)

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)		
	Station 6-2	
1:45PM	1.40	8.674
2:00	1.40	8.674
2:15	1.40	8.674
2:30	1.50	8.574
2:45	1.50	8.574
3:00	1.55	8.524
3:15	1.60	8.474
3:30	1.60	8.474
3:45	1.65	8.424
4:00	1.65	8.424
4:15	1.70	8.374
4:30	1.70	8.374
4:45	1.70	8.374
5:00	1.70	8.374
5:15	1.75	8.324
5:30	1.80	8.274
5:45	1.85	8.224
6:00	1.90	8.174
6:15	1.90	8.174
6:30	1.90	8.174
6:45	1.90	8.174
7:00	1.90	8.174
7:15	1.95	8.124
7:30	1.95	8.124
7:45	1.95	8.124
8:00	1.95	8.124
8:15	1.95	8.124
8:30	1.95	8.124
8:45	1.95	8.124
9:00	1.95	8.124
9:15	1.95	8.124
9:30	1.95	8.124
9:45	1.95	8.124
10:00	1.95	8.124
10:15	1.95	8.124
10:30	1.95	8.124
10:45	1.90	8.174
11:00	1.90	8.174
11:15	1.90	8.174
11:30	1.90	8.174
11:45	1.90	8.174
September 25		
12:00Mid	1.90	8.174

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 25 (continued)		
	Station 6-2	
12:15AM	1.90	8.174
12:30	1.90	8.174
12:45	1.95	8.124
1:00	1.95	8.124
1:15	2.0	8.074
1:30	2.0	8.074
1:45	2.05	8.024
2:00	2.1	7.974
2:15	2.1	7.974
2:30	2.1	7.974
2:45	2.2	7.874
3:00	2.2	7.874
3:15	2.25	7.824
3:30	2.25	7.824
3:45	2.3	7.774
4:00	2.35	7.724
4:15	2.4	7.674
4:30	2.4	7.674
4:45	2.45	7.624
5:00	2.5	7.574
5:15	2.55	7.524
5:30	2.55	7.524
5:45	2.55	7.524
6:00	2.55	7.524
6:15	2.6	7.474
6:30	2.6	7.474
6:45	2.6	7.474
7:00	2.65	7.424
7:15	2.65	7.424
7:30	2.65	7.424
7:45	2.7	7.374
8:00	2.7	7.374
8:15	2.7	7.374
8:30	2.7	7.374
8:45	2.7	7.374
9:00	2.7	7.374
9:15	2.7	7.374
9:30	2.65	7.424
9:45	2.7	7.374
10:00	2.65	7.424
10:15	2.65	7.424
10:30	2.65	7.424
10:45	2.6	7.474
11:00	2.6	7.474


CONTINUOUS WATER STAGE RECORDER CHART
FEET ABOVE MEAN SEA LEVEL
FEET ABOVE MEAN SEA LEVEL
20 MARCH
21
22
23
24
25
22 SEPT.
23
24
25
10
9
8
7
6
5
1936
1938
CREST 10.10 FT. M.S.L.
MARCH 21 - 1936
10:00 - 11:00 P.M.
CREST 8.82 FT.
SEPT. 24 - 1938
12:00 NOON
CONN. RIVER
FLOOD STAGES AT
STANDARD OIL CO.
ESSEX PAINT AND MARINE CO.,
ESSEX, CONN. 1936 & 1938
1936 HYDROGRAPH
PLOTTED FROM READINGS
INCLUDED IN
"THE GREAT FLOOD OF MARCH 1936"
PREPARED BY
CONN. GROUND WATER SURVEY
JUNE 1938
OBSERVED BY - CONN. GROUND WATER SURVEY
PLOTTED BY - CONN. GROUND WATER SURVEY
W.P.A. OFFICIAL PROJECT 665-15-3-116

Gauge Heights at Middletown, Connecticut
Narrows - Tree Near Concrete Wall, Dock
International Feldspar Company
Point Number 48
Approximately 29.0 miles from Saybrook Light

OBSERVED BY:- State Water Commission.

PERIOD:- 8:15PM, September 23 to 7:30AM, September 24, 1938.

FLOOD CREST ALTITUDE:- 25.34 feet m.s.l.

DATUM:- United States Coast & Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Galvanized iron nail set in tree near concrete wall, dock of International Feldspar Company.

REMARKS:-

Elevation of crest established by State Water Commission and elevations of readings figured from that point.

Altitude of crest determined by State Water Commission.

Readings converted to mean sea level by State Water Commission.

Time is Eastern Standard Time.

Gauge Heights at Middletown, Connecticut
"Narrows" - Tree Near Concrete Wall
Dock of International Feldspar Company
Point Number 48

September 23 to September 24, 1938

TIME E.S.T.	ELEVATION M.S.L.	TIME E.S.T.	ELEVATION M.S.L.
September 23		September 24 (Continued)	
8:15PM	25.29	1:15AM	25.34
8:30	25.31	1:30	25.33
8:45	25.31	1:45	25.33
9:00	25.30	2:00	25.32
9:15	25.30	2:15	25.32
9:30	25.29	2:30	25.32
9:45	25.32	2:45	25.32
10:00	25.30	3:00	25.30
10:15	25.32	3:15	25.30
10:30	25.32	3:30	25.28
10:45	25.33	3:45	25.28
11:00	25.33	4:00	25.28
11:15	25.33	4:30	25.26
11:30	25.33	4:45	25.26
11:45	25.34	5:00	25.26
12:00Mid	25.34	5:15	25.24
		5:30	25.24
September 24		5:45	25.23
		6:00	25.21
12:15AM	25.34	6:15	25.19
12:30	25.34	6:30	25.17
12:45	25.34	7:00	25.15
1:00	25.34	7:30	25.11

Gauge Heights at Middletown, Connecticut
Narrows Opposite Bodkin Rock
Point Number 52
Approximately 29.5 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 12:50PM, September 22 to 5:28PM, September 26, 1938.

FLOOD CREST ALTITUDE:- 25.751 feet m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Levelling rod strip fastened to 3 to 4" tree located on bank of river. Tree is east of a point on railroad which is about 18.0 feet south of P. T. monument 1456 + 1220 on Valley railroad line and 65.0 feet north of signal tower base.
Elevation of 0.0 of gauge 19.451 feet m.s.l.

REMARKS:-

After water had receded beyond point where readings could be taken from gauge, a series of eight stakes were set and time noted. Elevations were determined at these points by the Connecticut Ground Water Survey. Elevation of 0.0 of gauge also determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Middletown, Connecticut
"Narrows" - Opposite Bodkin Rock
Point Number 52

September 22 to September 26, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
	Station 52	
12:50PM	-0.02	19.431
1:00	+0.06	19.511
1:30	+0.25	19.701
2:00	+0.45	19.901
2:30	+0.62	20.071
3:00	+0.81	20.261
3:30	+0.99	20.441
4:00	+1.16	20.611
4:30	+1.32	20.771
5:00	+1.49	20.941
5:30	1.66	21.111
6:00	1.81	21.261
6:30	2.00	21.451
7:00	2.14	21.591
7:30	2.31	21.761
8:00	2.44	21.871
8:30	2.62	22.071
9:00	2.75	22.201
9:30	2.86	22.311
10:00	3.02	22.471
10:30	3.16	22.611
11:00	3.26	22.711
11:30	3.41	22.861
September 23		
12:00Mid	3.53	22.981
12:30AM	3.65	23.101
1:00	3.78	23.231
1:30	3.88	23.331
2:00	3.97	23.421
2:11	4.03	23.481
3:00	4.20	23.651
3:40	4.34	23.791
4:15	4.45	23.901
4:55	4.61	24.061
6:20	4.84	24.291
7:00	4.97	24.421
7:35	5.03	24.481
8:15	5.12	24.571
8:50	5.21	24.661
9:00	5.28	24.731
9:30	5.35	24.801
10:00	5.40	24.851
10:30	5.47	24.921

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 23 (Continued)		
	Station 52	
11:00AM	5.55	25.001
11:30	5.60	25.051
12:00Noon	5.63	25.081
12:30PM	5.72	25.171
1:00	5.76	25.211
1:30	5.83	25.281
2:00	5.88	25.331
2:30	5.90	25.351
3:00	5.97	25.421
3:30	6.01	25.461
4:00	6.03	25.481
4:30	6.03	25.481
4:45	6.04	25.491
5:00	6.05	25.501
5:15	6.07	25.521
5:30	6.09	25.541
5:45	6.105	25.556
6:00	6.115	25.566
6:15	6.130	25.581
6:30	6.145	25.596
6:45	6.160	25.611
7:00	6.175	25.626
7:15	6.190	25.641
7:30	6.205	25.656
7:45	6.205	25.656
8:15	6.220	25.671
8:30	6.225	25.676
8:45	6.230	25.681
9:00	6.265	25.716
9:15	6.265	25.716
9:30	6.265	25.716
9:45	6.265	25.716
10:00	6.265	25.716
10:15	6.265	25.716
10:30	6.240	25.691
10:45	6.280	25.731
11:00	6.260	25.711
11:15	6.265	25.716
11:30	6.270	25.721
11:45	6.265	25.716
12:00Mid	6.280	25.731
September 24		
12:15AM	6.29	25.741

Gauge Heights at Middletown, Connecticut (Continued)

September 24 (Continued)

Station 52

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
12:30AM	6.30	25.751
12:45	6.30	25.751
1:00	6.25	25.701
1:15	6.285	25.736
1:30	6.285	25.736
1:45	6.275	25.726
2:00	6.275	25.726
2:15	6.275	25.726
2:30	6.275	25.726
2:45	6.260	25.711
3:00	6.260	25.711
3:15	6.21	25.661
3:30	6.21	25.661
3:45	6.20	25.651
4:00	6.23	25.681
4:15	6.20	25.651
4:30	6.18	25.631
4:45	6.18	25.631
5:00	6.20	25.651
5:15	6.175	25.625
5:30	6.18	25.631
5:45	6.11	25.561
6:00	6.12	25.571
6:15	6.13	25.581
6:30	6.09	25.541
6:45	6.10	25.551
7:00	6.07	25.521
7:15	6.05	25.501
7:30	6.07	25.521
8:15	6.01	25.461
8:30	6.02	25.471
8:45	5.99	25.441
9:00	5.99	25.441
9:15	5.98	25.431
9:30	5.94	25.391
9:45	5.91	25.361
10:00	5.92	25.371
10:15	5.88	25.331
10:30	5.86	25.311
10:45	5.83	25.281
11:00	5.82	25.271
11:15	5.80	25.251
11:30	5.78	25.231
11:45	5.78	25.231
12:00Noon	5.73	25.181
12:15PM	5.72	25.171
12:30	5.72	25.171
12:45	5.68	25.131

September 24 (Continued)

Station 52

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
1:00PM	5.66	25.111
1:15	5.62	25.071
1:30	5.62	25.071
1:45	5.57	25.021
2:00	5.56	25.011
2:15	5.55	25.001
2:30	5.51	24.961
2:45	5.47	24.921
3:00	5.47	24.921
3:15	5.43	24.881
3:30	5.40	24.851
3:45	5.37	24.821
4:00	5.35	24.801
4:15	5.32	24.771
4:30	5.28	24.731
4:45	5.28	24.731
5:00	5.25	24.701
5:15	5.20	24.651
5:30	5.20	24.651
5:45	5.18	24.631
6:00	5.14	24.591
6:15	5.13	24.581
6:30	5.10	24.551
6:45	5.05	24.501
7:00	5.00	24.451
7:15	4.95	24.401
7:30	4.93	24.381
7:45	4.90	24.351
8:00	4.88	24.331
8:15	4.85	24.301
8:30	4.80	24.251
8:45	4.78	24.231
9:00	4.75	24.201
9:15	4.70	24.151
9:30	4.68	24.131
9:45	4.65	24.101
10:00	4.60	24.051
10:15	4.60	24.051
10:30	4.55	24.001
10:45	4.53	23.981
11:00	4.45	23.901
11:15	4.43	23.881
11:30	4.40	23.851
11:45	4.35	23.801

September 25

12:00Mid	4.35	23.801

Gauge Heights at Middlotown, Connecticut (Continued)

September 25 (Continued)

Station 52

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
12:15AM	4.31	23.761
12:30	4.28	23.731
12:45	4.21	23.661
1:00	4.19	23.641
1:15	4.15	23.601
1:30	4.11	23.561
1:45	4.07	23.521
2:00	4.03	23.481
2:15	4.00	23.451
2:30	3.97	23.421
2:45	3.94	23.391
3:00	3.86	23.311
3:15	3.84	23.291
3:30	3.77	23.221
3:45	3.70	23.151
4:00	3.67	23.121
4:15	3.62	23.071
4:30	3.60	23.051
4:45	3.58	23.031
5:00	3.54	22.991
5:15	3.52	22.971
5:30	3.47	22.921
5:45	3.45	22.901
6:00	3.38	22.831
6:15	3.34	22.791
6:30	3.30	22.751
6:45	3.25	22.701
7:00	3.205	22.656
7:15	3.180	22.631

September 25 (Continued)

Station 52

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
7:30AM	3.140	22.593
7:45	3.100	22.551
8:00	3.040	22.491
10.01	2.70	22.151
10.17	2.685	22.136
11:05	2.525	21.976
12:00Noon	2.325	21.776
12:38PM	2.150	21.601
1:18	2.125	21.576
1:53	2.000	21.451
2:32	1.850	21.301
3:05	1.795	21.246
3:48	1.650	21.101
4:23	1.540	20.991
5:04	1.40	20.851
5:39	1.30	20.751
6:12	1.150	20.601

September 26

11:21AM	Stake	17.450
12:23PM	"	17.212
1:23	"	17.179
2:35	"	17.081
3:20	"	16.841
4:00	"	16.545
4:48	"	16.40
5:28	"	16.373

Gauge Heights at Middletown, Connecticut
Narrows "A"
On Valley Railroad Line Near Town Poor Farm
Point Number 58
Approximately 30.5 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 1:26PM, September 22 to 5:45PM, September 26, 1938.

FLOOD CREST ALTITUDE:- 26.214 feet, m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 58-1	Mark cut on top of tie on railroad trestle. Trestle is east of Town Poor Farm. Mark is 14.6 feet west of a chiseled cross in northeast corner of east end of north wing of east abutment of trestle. Elevation 24.337 feet, m.s.l.
Station 58-2	Stake driven 125.0' east of station 58-1, 13 ties west of W.U.T. pole, first pole west of W.U.T. pole 25. Elevation 26.152 feet, m.s.l.
Station 58-3	Stake driven on north side of railroad track 22 ties east of 58-2 and 9 ties east of W.U.T. pole above. Elevation 27.202 feet, m.s.l.
Station 58-4	Stake driven on north side of railroad track 45 ties east of 58-3 and 26 ties west of W.U.T. pole 25. Elevation 26.642 feet, m.s.l.
Station 58-5	Stake driven on north side of railroad track 36 ties east of 58-4 and 9 ties east of W.U.T. pole 25. Elevation 27.077 feet, m.s.l.
Station 58-6	Stake driven on north side of railroad track, 30 ties east of 58-5 and 38 ties west of W.U.T. pole U2. Elevation 27.379 feet, m.s.l.
Station 58-7	Stake driven on north side of railroad track, 11 ties east of 58-6 and 27 ties west of W.U.T. pole U2. Elevation 27.374 feet, m.s.l.
Station 58-8	Notch cut in tree on bank of Connecticut River, approximately 20 feet north of railroad track, and 100 feet east of 58-7. Elevation 27.958 feet, m.s.l.

REMARKS:-

After water had reached a height where original Station 58-1 was not useable, a series of seven stakes were driven as described above and measurements taken from top of these stakes.

Altitude of measuring points determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Middletown, Connecticut
Narrows "A"
On Valley Railroad Line Near Town Poor Farm
Point Number 58

September 22 to September 26, 1938

TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.
September	22		
1:26PM	1	4.32	20.017
2:00	1	4.10	20.237
2:30	1	3.91	20.427
3:00	1	3.73	20.607
3:30	1	3.57	20.767
4:00	1	3.40	20.937
4:30	1	3.24	21.097
5:00	1	3.02	21.317
5:30	1	2.85	21.487
6:00	1	2.67	21.667
6:30	1	2.46	21.877
7:00	1	2.33	22.007
7:30	1	2.10	22.237
8:00	1	1.95	22.387
8:30	1	1.80	22.537
9:00	1	1.57	22.767
9:00	1	1.70	22.637
9:30	1	1.51	22.827
10:00	1	1.41	22.927
10:30	1	1.30	23.037
11:00	1	1.20	23.137
11:30	1	1.13	23.207
12:00Mid.	1	0.99	23.347
September	23		
12:30AM	1	0.78	23.557
1:00	1	0.62	23.717
1:30	1	0.58	23.757
2:40	1	0.35	23.987
3:25	1	0.22	24.117
3:55	1	0.10	24.237
4:30	1	0.05	24.387
5:15	1	0.2	24.537
6:40	2	1.41	24.742
7:10	3	2.32	24.882
7:20	2	1.38	24.772
7:55	3	2.26	24.942
7:55	2	1.22	24.932
8:25	2	1.15	25.000
8:26	3	2.19	25.012
8:27	4	1.50	25.142

TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.
September	23 (continued)		
9:10AM	2	1.05	25.102
9:10	3	2.06	25.142
9:10	4	1.40	25.242
9:20	5	1.94	25.137
9:21	4	1.35	25.292
9:21	3	2.04	25.162
9:22	2	0.97	25.182
9:30	2	0.95	25.202
9:31	3	2.04	25.162
9:32	4	1.33	25.312
9:33	5	1.84	25.237
9:45	2	0.94	25.212
9:46	3	1.96	25.242
9:47	4	1.27	25.372
9:48	5	1.79	25.287
10:00	2	0.92	25.232
10:01	3	1.94	25.262
10:02	4	1.24	25.402
10:03	5	1.77	25.307
10:15	2	0.90	25.252
10:15	3	1.92	25.282
10:16	4	1.21	25.432
10:18	5	1.73	25.347
10:30	3	1.85	25.352
10:30	4	1.17	25.472
10:32	5	1.70	25.379
10:45	3	1.83	25.372
10:46	4	1.14	25.502
10:48	5	1.65	25.427
11:00	3	1.79	25.412
11:01	4	1.11	25.532
11:02	5	1.64	25.437
11:15	3	1.76	25.442
11:16	4	1.09	25.552
11:16	5	1.62	25.457
11:30	3	1.76	25.442
11:31	4	1.07	25.572
11:32	5	1.57	25.507
11:45	3	1.70	25.502
11:45	4	1.05	25.592
11:45	5	1.58	25.497
12:00Noon	3	1.69	25.512

Gauge Heights at Middletown, Connecticut (cont'd)

TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.	TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.
September 23 (continued)				September 23 (continued)			
12:00Noon	4	1.01	25.632	4:05PM	7	1.40	25.974
12:01PM	5	1.53	25.547	4:25	5	1.14	25.937
12:02	6	1.85	25.529	4:28	6	1.50	25.879
12:16	3	1.68	25.522	4:30	7	1.35	26.024
12:16	4	1.00	25.642	4:45	5	1.13	25.947
12:17	5	1.52	25.557	4:46	6	1.45	25.929
12:18	6	1.84	25.539	4:47	7	1.37	26.000
12:30	3	1.66	25.542	4:51	8	2.10	25.858
12:31	4	0.98	25.662	5:00	5	1.07	26.007
12:32	5	1.49	25.587	5:02	6	1.37	26.009
12:33	6	1.81	25.569	5:03	7	1.31	26.064
12:45	3	1.63	25.572	5:06	8	1.93	26.028
12:45	4	0.95	25.692	5:15	5	1.11	25.967
12:46	5	1.46	25.617	5:17	6	1.43	25.949
12:47	6	1.77	25.609	5:18	7	1.31	26.064
1:00	4	0.89	25.752	5:22	8	1.90	26.058
1:01	5	1.44	25.637	5:31	5	1.10	25.977
1:01	6	1.75	25.629	5:32	6	1.43	25.949
1:15	4	0.89	25.752	5:33	7	1.35	26.024
1:16	5	1.44	25.637	5:35	8	1.88	26.078
1:16	6	1.74	25.639	5:45	5	1.07	26.007
1:30	4	0.85	25.792	5:46	6	1.40	25.979
1:31	5	1.38	25.697	5:48	7	1.32	26.054
1:32	6	1.70	25.679	5:50	8	1.88	26.078
1:45	4	0.81	25.832	6:00	5	1.05	26.027
1:46	5	1.35	25.727	6:01	6	1.36	26.019
1:46	6	1.68	25.699	6:02	7	1.25	26.124
2:00	4	0.79	25.852	6:04	8	1.89	26.068
2:01	5	1.33	25.747	6:15	5	1.00	26.077
2:01	6	1.66	25.719	6:16	6	1.36	26.019
2:35	4	0.75	25.892	6:18	7	1.24	26.134
2:36	5	1.29	25.787	6:20	8	1.89	26.068
2:37	6	1.62	25.759	6:32	5	1.03	26.047
3:00	4	0.70	25.942	6:33	6	1.29	26.089
3:01	5	1.25	25.827	6:35	7	1.27	26.104
3:01	6	1.60	25.779	6:39	8	1.90	26.058
3:15	4	0.68	25.962	6:45	5	1.00	26.077
3:16	5	1.21	25.867	6:47	6	1.32	26.059
3:16	6	1.54	25.839	6:48	7	1.23	26.144
3:30	4	0.65	25.992	6:53	8	1.88	26.078
3:31	5	1.18	25.897	7:00	5	0.99	26.087
3:32	6	1.50	25.879	7:02	6	1.28	26.099
3:45	4	0.64	26.002	7:04	7	1.22	26.154
3:45	5	1.16	25.917	7:09	8	1.87	26.088
3:46	6	1.50	25.879	7:15	5	1.02	26.057
4:01	5	1.20	25.877	7:17	6	1.32	26.059
4:02	6	1.55	25.827	7:19	7	1.24	26.134

Gauge Heights at Middletown, Connecticut (cont'd)

TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.
September 23 (continued)			
7:30PM	5	1.01	26.067
7:32	6	1.33	26.049
7:34	7	1.22	26.154
7:39	8	1.84	26.118
7:46	5	1.01	26.067
7:48	6	1.30	26.079
7:50	7	1.20	26.174
8:02	5	0.99	26.087
8:04	6	1.33	26.049
8:04	7	1.27	26.104
8:10	8	1.87	26.088
8:15	5	1.05	26.027
8:16	6	1.35	26.029
8:17	7	1.25	26.124
8:30	5	0.98	26.097
8:31	6	1.33	26.049
8:32	7	1.24	26.134
8:38	8	1.86	26.098
8:45	5	0.98	26.097
8:47	6	1.28	26.099
8:49	7	1.19	26.184
9:00	5	0.95	26.127
9:02	6	1.26	26.119
9:04	7	1.18	26.194
9:09	8	1.81	26.148
9:15	5	0.98	26.097
9:17	6	1.29	26.089
9:19	7	1.18	26.194
9:30	5	0.97	26.107
9:32	6	1.30	26.079
9:34	7	1.17	26.204
9:40	8	1.80	26.158
9:45	5	0.95	26.127
9:47	6	1.28	26.099
9:49	7	1.18	26.194
10:00	5	0.95	26.127
10:02	6	1.26	26.119
10:04	7	1.16	26.214
10:10	8	1.79	26.168
10:15	5	0.92	26.157
10:17	6	1.28	26.099
10:19	7	1.16	26.214
10:30	5	0.93	26.147
10:30	6	1.31	26.069
10:34	7	1.21	26.164
10:40	8	1.82	26.138
10:45	5	0.95	26.127
10:47	6	1.25	26.129

TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.
September 23 (continued)			
10:49PM	7	1.16	26.214
11:00	5	1.00	26.077
11:02	6	1.28	26.099
11:04	7	1.16	26.214
11:10	8	1.80	26.158
11:15	5	0.92	26.157
11:17	6	1.27	26.109
11:19	7	1.20	26.174
11:24	8	1.79	26.168
11:30	5	0.95	26.127
11:32	6	1.30	26.079
11:34	7	1.21	26.164
11:40	8	1.79	26.168
11:45	5	0.96	26.117
11:50	6	1.26	26.119
11:52	7	1.19	26.184
11:58	8	1.79	26.168
September 24			
12:15AM	5	1.14	25.937
12:20	6	1.39	25.989
12:25	7	1.24	26.134
12:40	5	0.92	26.157
12:45	6	1.24	26.139
12:45	7	1.15	26.124
12:53	8	1.79	26.168
1:11	5	0.96	26.117
1:13	6	1.245	26.134
1:14	7	1.15	26.124
1:19	8	1.795	26.163
1:30	5	0.92	26.157
1:34	6	1.25	26.129
1:35	7	1.145	26.119
1:39	8	1.81	26.148
1:53	5	0.93	26.147
1:55	6	1.26	26.119
1:55	7	1.17	26.204
1:59	8	1.80	26.158
2:15	5	0.91	26.167
2:16	6	1.21	26.169
2:17	7	1:15	26.124
2:22	8	1.82	26.138
2:40	5	0.93	26.147
2:41	6	1.27	26.109
2:42	7	1.20	26.174
2:45	8	1.835	26.123
3:00	5	1.02	26.057

Gauge Heights at Middletown, Connecticut (cont'd)

TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.	TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)				September 24 (continued)			
3:00AM	6	1.30	26.079	6:38AM	6	1.48	25.899
3:01	7	1.20	26.174	6:31	8	1.98	25.978
3:05	8	1.82	26.138	6:56	5	1.095	25.982
3:22	5	1.01	26.067	6:56	6	1.45	25.929
3:23	6	1.29	26.089	7:00	8	1.98	25.978
3:23	7	1.22	26.154	7:09	4	0.555	26.087
3:29	8	1.87	26.088	7:10	5	1.12	25.957
3:42	5	1.02	26.057	7:12	6	1.50	25.879
3:43	6	1.35	26.029	7:13	7	1.43	25.944
3:43	7	1.24	26.134	7:15	8	2.05	25.908
3:47	8	1.87	26.088	7:30	5	1.21	25.867
4:00	5	0.97	26.107	7:31	6	1.55	25.829
4:01	6	1.30	26.079	7:32	7	1.41	25.964
4:02	7	1.22	26.154	7:38	8	2.40	25.558
4:06	8	1.865	26.093	7:42	4	0.68	25.962
4:21	5	1.00	26.077	7:45	5	1.20	25.877
4:22	6	1.365	26.014	7:46	6	1.65	25.729
4:23	7	1.24	26.134	7:46	7	1.47	25.904
4:27	8	1.90	26.058	7:51	8	2.65	25.308
4:36	5	1.02	26.057	8:20	5	1.25	25.827
4:37	6	1.33	26.049	8:21	6	1.60	25.779
4:38	7	1.28	26.194	8:25	8	2.12	25.838
4:45	8	1.90	26.058	8:40	5	1.28	25.797
4:57	5	1.04	26.037	8:41	6	1.61	25.769
4:56	6	1.37	26.009	8:45	8	2.14	25.818
4:57	7	1.29	26.084	9:00	5	1.25	25.827
5:03	8	1.90	26.058	9:01	6	1.57	25.809
5:08	4	0.56	26.082	9:03	8	2.12	25.838
5:15	5	1.05	26.027	9:15	5	1.27	25.807
5:16	6	1.37	26.009	9:16	6	1.59	25.789
5:17	7	1.30	26.074	9:20	8	2.15	25.808
5:23	8	1.95	26.008	9:30	5	1.27	25.807
5:30	5	1.06	26.017	9:31	6	1.60	25.779
5:31	6	1.39	26.009	9:31	6	1.61	25.769
5:32	7	1.30	26.074	9:33	8	2.15	25.808
5:35	8	1.945	26.013	9:34	8	2.16	25.798
5:45	5	1.06	26.017	9:45	5	1.30	25.777
5:46	6	1.40	25.979	9:46	6	1.62	25.759
5:52	8	1.96	25.998	9:49	8	2.18	25.778
6:00	5	1.07	26.007	10:00	5	1.35	25.727
6:01	6	1.44	25.939	10:01	6	1.65	25.729
6:07	8	1.94	26.018	10:04	8	2.19	25.768
6:20	5	1.07	26.007	10:15	5	1.42	25.657
6:21	6	1.40	25.979	10:16	6	1.70	25.679
6:24	8	1.96	25.998	10:20	8	2.22	25.738
6:27	4	0.575	26.067	10:30	5	1.38	25.697
6:37	5	1.09	25.987	10:31	6	1.72	25.659

Gauge Heights at Middletown, Connecticut (cont'd)

TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.	TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)				September 24 (continued)			
10:34AM	8	2.25	25.708	2:01PM	5	1.65	25.427
10:46	5	1.38	25.697	2:04	8	2.55	25.408
10:47	6	1.71	25.669	2:15	3	1.86	25.342
10:50	8	2.27	25.688	2:16	5	1.69	25.387
11:00	5	1.37	25.707	2:20	8	2.59	25.368
11:01	6	1.72	25.659	2:30	3	1.86	25.342
11:04	8	2.28	25.678	2:31	5	1.70	25.377
11:15	3	1.57	25.632	2:35	8	2.60	25.358
11:17	5	1.44	25.637	2:45	3	1.89	25.312
11:17	6	1.78	25.599	2:46	5	1.76	25.317
11:19	8	2.33	25.628	2:50	8	2.65	25.308
11:29	3	1.59	25.612	3:00	3	1.92	25.282
11:30	5	1.40	25.677	3:01	5	1.80	25.277
11:31	6	1.75	25.629	3:03	8	2.71	25.248
11:34	8	2.35	25.608	3:07	2	0.89	25.262
11:40	3	1.62	25.582	3:15	2	0.91	25.242
11:41	5	1.44	25.637	3:16	3	1.96	25.242
11:42	6	1.78	25.599	3:17	5	1.85	25.227
11:45	8	2.36	25.598	3:20	8	2.75	25.208
12:00Noon	3	1.67	25.532	3:30	2	0.95	25.202
12:01PM	5	1.50	25.577	3:31	3	2:00	25.202
12:03	6	1.82	25.559	3:32	5	1.85	25.227
12:05	8	2.39	25.568	3:35	8	2.76	25.198
12:15	3	1.67	25.532	3:45	2	0.98	25.172
12:16	5	1.53	25.547	3:46	3	2.02	25.182
12:17	6	1.84	25.539	3:47	5	1.86	25.217
12:20	8	2.40	25.558	3:50	8	2.77	25.188
12:30	3	1.70	25.502	4:00	2	1.00	25.152
12:31	5	1.57	25.507	4:01	3	2.05	25.152
12:33	6	1.88	25.499	4:02	5	1.88	25.197
12:35	8	2.45	25.528	4:05	8	2.81	25.148
12:45	3	1.74	25.462	4:17	2	1.05	25.102
12:46	5	1.58	25.497	4:18	3	2.06	25.142
12:49	8	2.47	25.488	4:22	5	1.93	25.147
1:00	3	1.78	25.422	4:31	2	1.06	25.092
1:01	5	1.60	25.477	4:33	3	2.08	25.122
1:04	8	2.50	25.458	4:35	5	1.95	25.127
1:15	3	1.79	25.412	4:37	8	2.85	25.108
1:16	5	1.62	25.457	4:45	2	1.12	25.032
1:18	8	2.51	25.448	4:48	3	2.18	25.022
1:30	3	1.78	25.422	4:50	5	1.98	25.097
1:31	5	1.63	25.447	5:02	2	1.16	24.992
1:34	8	2.53	25.428	5:04	3	2.18	25.022
1:45	3	1.78	25.422	5:06	5	1.98	25.097
1:46	5	1.65	25.427	5:10	8	2.91	25.048
1:48	8	2.54	25.418	5:17	2	1.14	25.012
2:00	3	1.80	25.402	5:18	3	2.18	25.022

Cross Tabulation of Lifetime Income and Education

| Income | Education | | |

Gauge Heights at Middletown, Connecticut (cont'd)

TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.	TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)				September 24 (continued)			
5:20PM	5	2.00	25.077	11:08AM	8	3.67	24.288
5:30	2	1.19	24.962	11:15	1	0.14	24.197
5:32	3	2.25	24.952	11:23	8	3.70	24.258
5:35	8	2.95	25.008	11:30	1	0.16	24.177
5:45	2	1.22	24.932	11:40	8	3.75	24.208
5:46	3	2.26	24.942	11:50	1	0.19	24.147
5:55	8	2.95	25.008	11:58	8	3.80	24.158
6:00	2	1.22	24.932				
6:01	3	2.28	24.922				
6:04	8	2.97	24.988	September 25			
6:15	2	1.28	24.972				
6:17	3	2.33	24.872	12:04AM	1	0.24	24.097
6:25	8	3.04	24.918	12:15	1	0.27	24.067
6:30AM	2	1.28	24.972	12:30	1	0.30	24.037
6:32	3	2.35	24.852	12:45	1	0.36	23.977
6:37	8	3.04	24.918	8:33	1	1.61	22.727
6:45	2	1.39	24.762	9:41	1	1.85	22.487
6:47	3	2.41	24.792	10:41	1	2.10	22.237
6:53	8	3.10	24.858	11:37	1	2.19	22.147
7:00	2	1.37	24.782	12:23PM	1	2.33	22.007
7:02	3	2.42	24.782	12:53	1	2.43	21.907
7:10	8	3.16	24.798	1:53	1	2.58	21.757
7:15	2	1.43	24.722	2:15	1	2.71	21.627
7:23	8	3.17	24.788	2:52	1	2.80	21.537
7:30	2	1.45	24.702	3:34	1	2.92	21.417
7:38	8	3.20	24.758	4:02	1	3.35	20.987
7:45	2	1.45	24.702	4:50	1	3.75	20.587
7:55	8	3.26	24.698	5:20	1	3.28	21.057
8:00	2	1.53	24.622	5:55	1	3.39	20.947
8:10	8	3.28	24.678	6:28	1	3.52	20.817
8:30	2	1.60	24.552				
8:35	8	3.34	24.618	September 26			
8:45	2	1.62	24.532				
8:53	8	3.38	24.578	11:05AM	1	6.775	17.562
9:23	8	3.41	24.548	11.52	1	6.950	17.387
9:30	8	3.46	24.498	12:45PM	1	7.10	17.237
9:45	8	3.50	24.458	1:45	1	7.30	17.037
10:00	8	3.54	24.418	2:17	1	7.40	16.937
10:15	8	3.55	24.408	2:58	1	7.525	16.812
10:30	8	3.61	24.348	3:42	1	7.70	16.637
10:45	8	3.63	24.328	4:28	1	7.875	16.462
10:47	1	0.06	24.277	5:10	1	7.95	16.387
11:00	1	0.11	24.227	5:45	1	8.10	16.237

Gauge Heights at Middletown, Connecticut
Hartford Avenue, Underpass
Point Number 64
Approximately 31.9 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 10:55AM, September 22 to 12:30PM, September 25, 1938.

FLOOD CREST ALTITUDE:- 27.42 feet m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 64-1 Bottom of bottom plate of I-Beam at south east and immediately in front of south abutment of railroad trestle. Elevation 34.42 feet, m.s.l.

REMARKS:-

Altitude of station determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Middletown, Connecticut
Hartford Avenue, Underpass
Point Number 64

September 22 to September 25, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
	Station 64	
10:55AM	14.1	20.320
11:00	14.15	20.270
11:30	13.925	20.495
12:00Noon	13.7	20.720
12:30PM	13.525	20.895
1:00	13.3	21.120
1:30	13.125	21.295
2:00	12.95	21.470
2:30	12.725	21.695
3:00	12.55	21.870
3:30	12.4	22.020
4:00	12.175	22.245
4:30	12.0	22.420
5:00	11.825	22.595
5:30	11.675	22.745
6:00	11.475	22.945
6:30	11.1	23.320
7:00	11.15	23.270
7:30	10.975	23.445
8:00	10.775	23.645
8:30	10.675	23.745
9:00	10.525	23.895
9:30	10.40	24.020
10:00	10.225	24.195
10:30	10.125	24.295
11:00	10.00	24.420
11:30	9.875	24.545
September 23		
12:00Mid	9.725	24.695
12:30AM	9.600	24.820
1:00	9.475	24.945
1:30	9.425	24.995
2:00	9.325	25.095
2:30	9.175	25.245
3:00	9.075	25.345
3:30	8.975	25.445
4:00	8.850	25.570
4:30	8.750	25.670
5:00	8.650	25.770
5:30	8.550	25.870
6:00	Tape stolen	
6:30	Rain	

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 23 (continued)		
	Station 64	
7:00AM	8.30	26.120
7:30	8.225	26.190
8:00	8.20	26.220
8:30	7.975	26.445
9:00	7.9	26.520
9:30	7.75	26.670
10:00	7.6	26.820
10:30	7.700	26.720
11:00	7.625	26.795
11:30	7.625	26.795
12:00Noon	7.600	26.820
12:30PM	7.550	26.870
1:00	7.500	26.920
1:30	7.425	26.995
2:00	7.400	27.020
2:30	7.300	27.120
3:00	7.275	27.145
3:30	7.300	27.120
4:00	7.225	27.195
4:30	7.175	27.245
5:00	7.125	27.295
5:30	7.125	27.295
6:00	7.125	27.295
6:30	7.100	27.320
7:00	7.075	27.345
7:30	7.050	27.370
8:00	7.025	27.395
8:30	7.0	27.420
9:00	7.0	27.420
9:30	7.0	27.420
10:00	7.0	27.420
10:30	7.0	27.420
11:00	7.0	27.420
11:30	7.0	27.420
12:00Mid	7.0	27.420
September 24		
12:30AM	7.0	27.420
1:00	7.0	27.420
1:30	7.250	27.170
2:00	7.250	27.170
2:30	7.250	27.170
3:00	7.500	26.920

Gauge Heights at Middletown, Connecticut (continued)

September 24 (continued)

Station 64

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
3:30AM	7.750	26.670
4:00	7.100	27.32
4:30	7.125	27.295
5:00	7.150	27.270
5:30	7.175	27.245
6:00	7.175	27.245
6:30	7.200	27.220
7:00	7.225	27.195
7:30	7.250	27.170
8:00	7.300	27.120
8:30	7.350	27.070
9:00	7.325	27.095
9:30	7.35	27.070
10:00	7.425	26.995
10:30	7.475	26.945
11:00	7.500	26.920
11:30	7.575	26.845
12:00Noon	7.600	26.820
12:30PM	7.700	26.720
1:00	7.725	26.695
1:30	7.775	26.645
2:00	7.800	26.620
2:30	7.875	26.545
3:00	7.900	26.520
3:30	7.950	26.470
4:00	8.000	26.420
4:30	8.100	26.320
5:00	8.150	26.270
5:30	8.200	26.220
6:00	8.250	26.170
6:30	8.325	26.095
7:00	8.400	26.020
7:30	8.475	25.945
8:00	8.550	25.870
8:30	8.600	25.820
9.00	8.675	25.745
9:30	8.725	25.695
10:00	8.800	25.620
10:30	8.900	25.520
11:00	8.975	25.445
11:30	9.050	25.370
12:00Mid	9.125	25.295

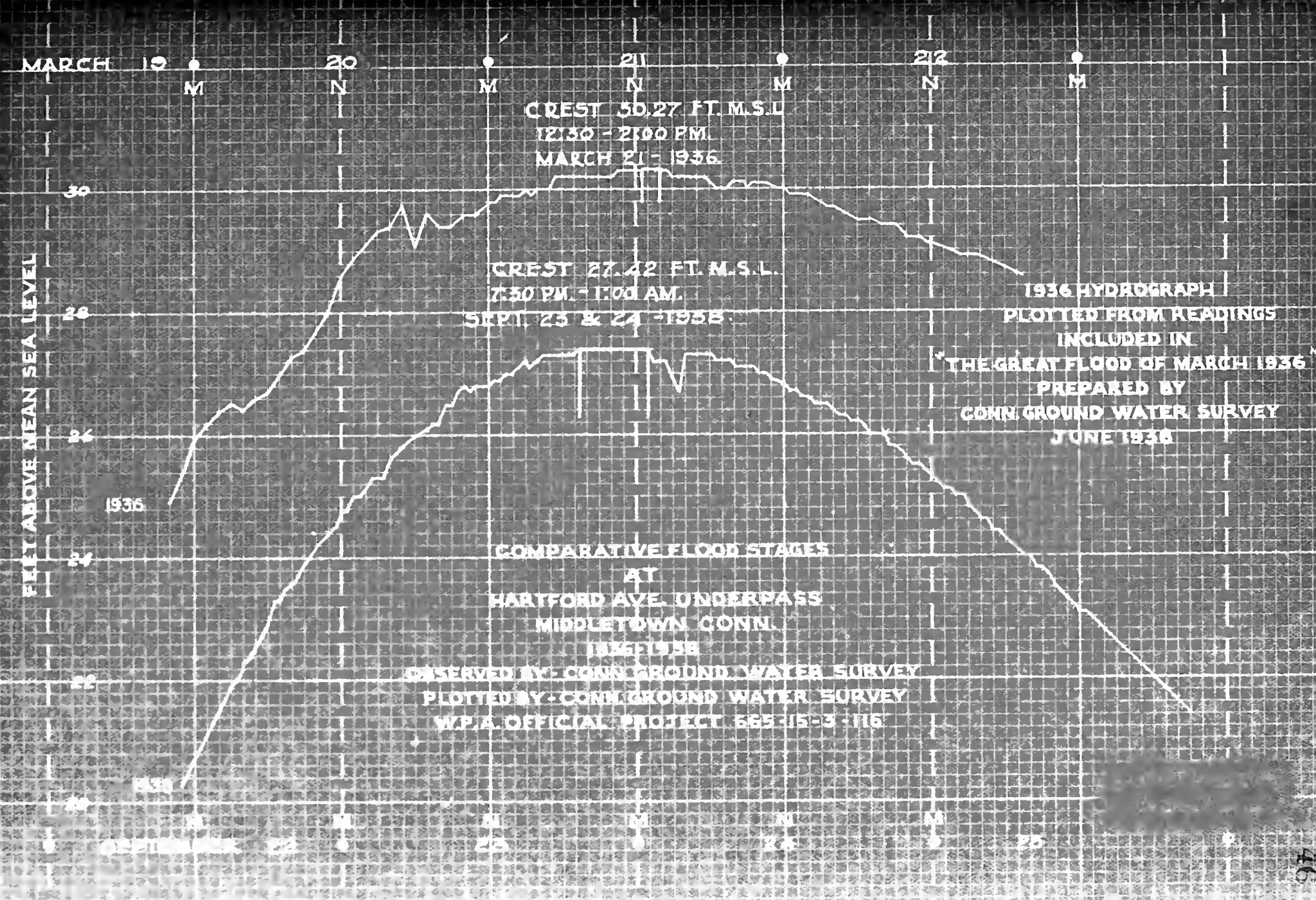
September 25

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
12:30AM	9.200	25.220
1:00	9.300	25.120

September 25 (continued)

Station 64

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
1:30AM	9.375	25.045
2:00	9.400	25.020
2:30	9.525	24.995
3:00	9.600	24.820
3:30	9.750	24.670
4:00	9.800	24.620
4:30	9.850	24.570
5:00	10.000	24.420
5:30	10.050	24.370
6:00	10.125	24.295
6:30	10.250	24.170
7:00	10.325	24.095
7:30	10.400	24.020
8:00	10.450	23.970
8:30	10.600	23.820
9:00	10.675	23.745
9:30	10.775	23.645
10.00	10.900	23.520
10:30	11.000	23.420
11:00	11.100	23.320
11:30	11.200	23.220
12:00Noon	11.300	23.120
12:30PM	11.375	23.045
1:00	11.450	22.970
1:30	11.575	22.845
2:00	11.650	22.770
2:30	11.750	22.670
3:00	11.825	22.595
3:30	11.950	22.470
4:00	12.025	22.395
4:30	12.125	22.295
5:00	12.250	22.170
5:30	12.300	22.120
6:00	12.380	22.040
6:30	12.500	21.920
7:00	12.650	21.770
7:30	12.680	21.740
8:00	12.770	21.650
8:30	12.890	21.530
9:00	13.000	21.420
9:30	13.100	21.320
10:00	13.180	21.240
10:30	13.270	21.150
11:10	13.400	21.020
11:30	13.480	20.940
12:00Mid	13.550	20.870
12:30AM	13.640	20.780


MARCH 19
20
21
22
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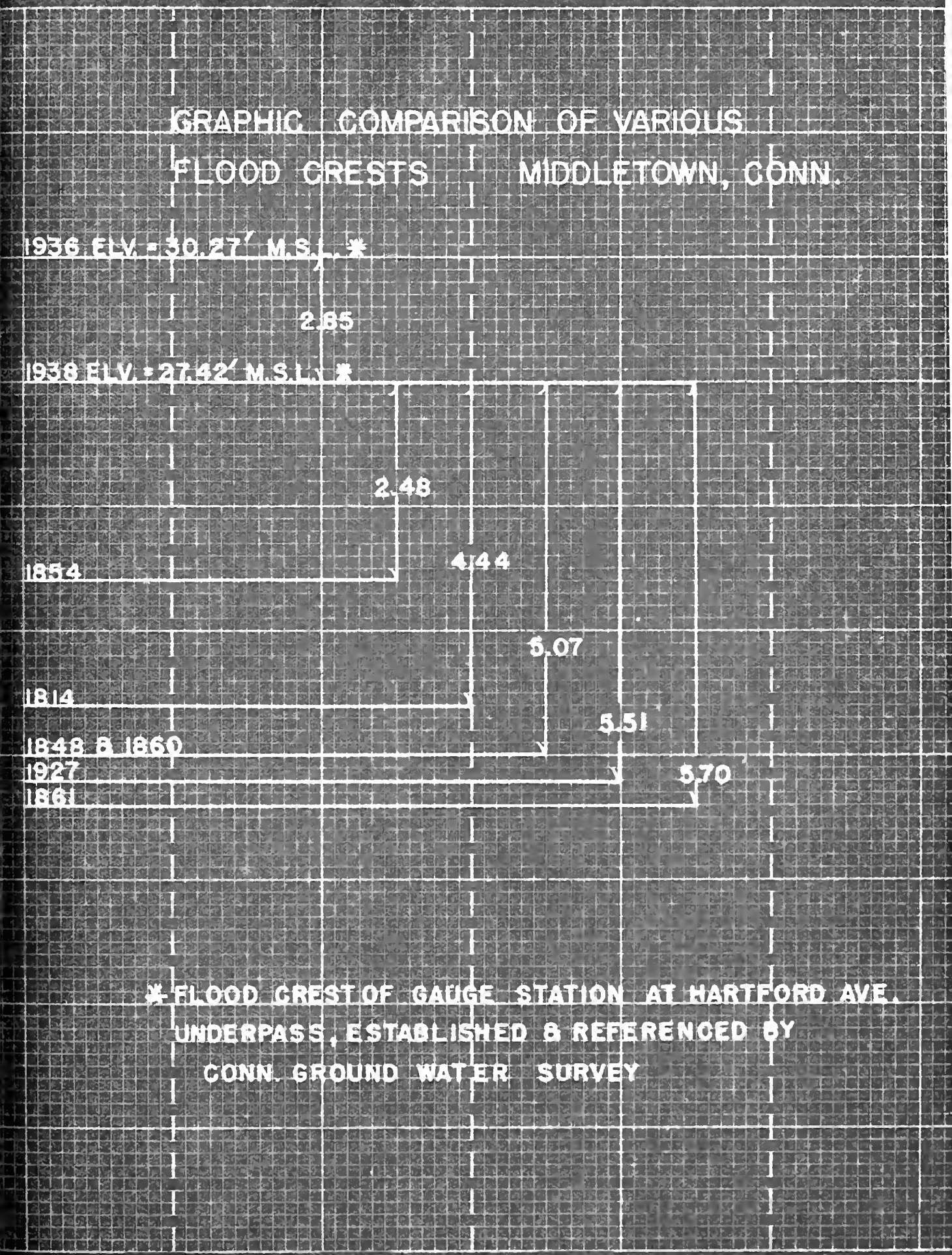
M
CREST 30.27 FT. M.S.L.
12:30 - 2:00 P.M.
MARCH 21 - 1936
CREST 27.42 FT. M.S.L.
7:30 P.M. - 1:00 A.M.
SEPT. 23 & 24 - 1938
1936 HYDROGRAPH
PLOTTED FROM READINGS
INCLUDED IN
"THE GREAT FLOOD OF MARCH 1936"
PREPARED BY
CONN. GROUND WATER SURVEY
JUNE 1936
FEET ABOVE MEAN SEA LEVEL
30
28
26
24
22
20
1936
COMPARATIVE FLOOD STAGES
AT
HARTFORD AVE. UNDERPASS
MIDDLETOWN, CONN.
1936 & 1938
OBSERVED BY: CONN. GROUND WATER SURVEY
PLOTTED BY: CONN. GROUND WATER SURVEY
W.P.A. OFFICIAL PROJECT 665-15-3-116
SEPTEMBER 24
25
26
27
28


GRAPHIC COMPARISON OF VARIOUS
FLOOD CRESTS MIDDLETOWN, CONN.
1936 ELV. = 30.27' M.S.L. *
2.85
1938 ELV. = 27.42' M.S.L. *
2.48
1854
4.44
5.07
1814
5.51
1848 & 1860
1927
5.70
1861
* FLOOD CREST OF GAUGE STATION AT HARTFORD AVE.
UNDERPASS, ESTABLISHED & REFERENCED BY
CONN. GROUND WATER SURVEY

Gauge Heights at Cromwell, Connecticut
Cromwell Center (Near Railroad Station)
Point Number 70
Approximately 33.9 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 4:00PM, September 23 to 9:10AM, September 26, 1938.

FLOOD CREST ALTITUDE:- 28.548 feet, m.s.l. (measured)

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 70-1	Top of nail set in pole #78, first pole south of railroad crossing, west side of road. Elevation 30.278 feet, m.s.l.
Station 70-2	U.S.G.S. copper plug set in same pole. Point is also high water mark. Elevation 28.533 feet, m.s.l.
Station 70-3	Top of nail set in pole #76 which is south of pole #78. Elevation 27.226 feet, m.s.l.
Station 70-4	Top of nail set in pole #71 which is south of pole #76. Elevation 24.558 feet, m.s.l.
Station 70-5	Top of nail set in pole #69 which is south of pole #71. Elevation 22.773 feet, m.s.l.

REMARKS:-

Altitude of stations determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Cromwell, Connecticut
Cromwell Center (Near Railroad Station)
Point Number 70

September 23 to September 26, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 23		
Station 70-1		
4:00PM	1.96	28.318
6:21	1.84	28.438
10:25	1.75	28.528
September 24		
12:15AM	1.73	28.548
2:10	1.76	28.518
3:50	1.82	28.458
5:15	1.91	28.368
7:30	2.03	28.248
Station 70-2		
9:23AM	0.45	28.083
11:49	0.66	27.873
2:08PM	0.85	27.683
4:35	1.21	27.323

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)		
Station 70-3		
9:10PM	1.03	26.196
11:00	1.30	25.926
September 25		
Station 70-4		
7:40PM	2.14	22.418
9:30	2.52	22.038
10:55	2.83	21.728
September 26		
Station 70-5		
1:50AM	1.60	21.173
3:55	2.08	20.693
6:35	2.50	20.273
9:10	2.93	19.843

Gauge Heights at Cromwell, Connecticut
Wall Street and River Road
Point Number 72
Approximately 34.1 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 4:20PM, to 10:30PM, September 26, 1938.

FLOOD CREST ALTITUDE:- 29.070 feet, m.s.l. (not determined from gauge heights)

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 72-1 Top of nail in S.N.E.T. Company pole #583.
Elevation 20.934 feet, m.s.l.

REMARKS:-

Altitude of station determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Cromwell, Connecticut
Wall Street and River Road
Point Number 72

September 26, 1938.

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.	TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 26			September 26 (continued)		
Station 72			Station 72		
4:20PM	2.37	18.564	7:45PM	3.26	17.674
5:30	2.64	18.294	8:45	3.48	17.454
6:35	2.93	18.004	10:30	3.70	17.234

Gauge Heights at East Hartford, Connecticut
Connecticut Company Pole A 34
Near Town Hall-Main Street
Point Number 79
Approximately 50.8 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey

PERIOD:- 11:45AM, September 22 to 5:30PM, September 25, 1938.

FLOOD CREST ALTITUDE:- 34.27 feet m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Gauge located on Connecticut Company pole A 34 south of Town Hall.

REMARKS:-

Altitude of stations determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at East Hartford, Connecticut
Connecticut Company Pole A 34
Point Number 79

September 22 to September 25, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
Station 79		
11:45AM	-0.50	28.97
12:45PM	0.00	29.47
1:45	0.30	29.77
2:45	0.60	30.07
3:45	0.90	30.37
4:45	1.30	30.77
5:45	1.60	31.07
6:45	1.90	31.37
7:45	2.20	31.67
8:45	2.40	31.87
9:45	2.65	32.12
10:45	2.85	32.32
11:45	3.05	32.52
September 23		
12:45AM	3.30	32.77
1:45	3.40	32.87
2:45	3.60	33.07
3:45	3.85	33.32
4:45	4.00	33.47
5:45	4.10	33.57
6:45	4.30	33.77
7:45	4.30	33.77
8:45	4.35	33.82
9:45	4.50	33.97
10:45	4.55	34.02
11:45	4.60	34.07
12:45PM	4.62	34.09
1:45	4.70	34.17
2:15	4.74	34.21
2:45	4.77	34.24
3:15	4.80	34.27
3:45	4.80	34.27
4:00	4.80	34.27
4:45	4.80	34.27
5:45	4.80	34.27
6:45	4.80	34.27
7:45	4.80	34.27
8:45	4.80	34.27
9:45	4.80	34.27
10:45	4.75	34.22
11:45	4.70	34.17

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24		
Station 79		
12:45AM	4.68	34.15
1:45	4.65	34.12
2:45	4.50	33.97
6:45	4.30	33.77
7:45	4.20	33.67
8:45	4.00	33.47
9:45	3.90	33.37
10:45	3.80	33.27
11:45	3.60	33.07
12:45PM	3.50	32.97
1:45	3.40	32.87
2:45	3.20	32.67
3:45	3.07	32.54
4:45	2.90	32.37
5:45	2.75	32.22
6:45	2.60	32.07
7:45	2.40	31.87
8:45	2.25	31.72
9:45	2.05	31.52
10:45	1.80	31.27
11:55	1.60	31.07
September 25		
12:50AM	1.40	30.87
1:45	1.20	30.67
2:45	1.00	30.47
3:45	0.85	30.32
4:45	0.65	30.12
5:45	0.45	29.92
6:45	0.20	29.67
7:45	0.00	29.47
11:45	-1.00	28.47
12:45PM	-1.10	28.37
Pole A 36		
1:45PM	-1.30	28.17
2:45	-1.53	27.94
3:45	-1.75	27.72
4:45	-2.00	27.47
Pole A 38		
5:30PM	-2.15	27.32

Gauge Heights at East Hartford, Connecticut
Gilman Street 360' ± west of King Street
Point Number 83
Approximately 54.0 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 2:30PM, September 22 to 2:45AM, September 25, 1938.

FLOOD CREST ALTITUDE:- 35.87 feet m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Gilman Street north side 360' ± West of King Street.
20' ± North of center line of road.

REMARKS:-

Altitude of stations determined by
Connecticut Ground Water Survey.

Readings converted to mean sea level by
Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at East Hartford, Connecticut
Gilman Street Off King Street
Point Number 83

September 22 to September 25, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
2:30PM	0.60	32.27
3:00	0.90	32.57
4:00	1.20	32.87
5:00	1.40	33.07
6:00	1.60	33.27
6:30	1.70	33.37
7:30	2.00	33.67
8:30	2.30	33.97
9:30	2.50	34.17
10:30	2.70	34.37
11:45	2.80	34.47
September 23		
1:00AM	3.00	34.67
2:00	3.20	34.87
3:00	3.40	35.07
4:00	3.50	35.17
5:00	3.60	35.27
6:00	3.70	35.37
7:00	3.80	35.47
8:00	3.85	35.52
9:00	3.90	35.57
10:00	3.95	35.62
11:00	4.00	35.67
12:00Noon	4.05	35.72
1:00PM	4.10	35.77
2:00	4.15	35.82
3:00	4.20	35.87
4:00	4.20	35.87
5:00	4.20	35.87
6:00	4.20	35.87
7:00	4.20	35.87
8:00	4.18	35.85
9:00	4.15	35.82
September 23 (continued)		
10:00PM	4.12	35.79
11:00	4.08	35.75
12:00Mid.	4.04	35.71
September 24		
1:00AM	4.00	35.67
2:00	3.90	35.57
3:00	3.80	35.47
4:00	3.70	35.37
5:00	3.60	35.27
6:00	3.50	35.17
7:00	3.40	35.07
8:00	3.30	34.97
10:00	3.00	34.67
11:00	2.85	34.52
12:00Noon	2.70	34.37
1:00PM	2.55	34.22
2:00	2.40	34.07
3:00	2.25	33.92
4:00	2.00	33.67
5:00	1.90	33.57
6:00	1.75	33.42
7:00	1.60	33.27
8:00	1.40	33.07
9:00	1.15	32.82
10:10	1.00	32.67
11:00	0.80	32.47
12:00Mid.	0.55	32.22
September 25		
1:00AM	0.35	32.02
2:00	0.15	31.82
2:45	0.00	31.67

Gauge Heights at Rocky Hill, Connecticut
Connecticut Foundry Company
Point Number 84
Approximately 40.2 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 1:45PM, September 22 to 2:15PM, September 26, 1938.

FLOOD CREST ALTITUDE:- 31.806 feet m.s.l. (measured)

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 84-1	Top of window sill at extreme southeast corner on south face of brick building. Elevation 30.421 feet, m.s.l.
Station 84-2	Top of nail in Hartford Electric Light Company pole #452. Elevation 31.421 feet, m.s.l.
Station 84-3	Top of nail in Hartford Electric Light Company pole at southwest corner of brick building. Elevation 32.736 feet, m.s.l.
Station 84-4	Top of southwest corner of sill at 3rd window from door at southwest corner of west face of brick building. Elevation 33.206 feet, m.s.l.
Station 84-5	Top of copper plug set in pole #452. Point is also high water mark. Elevation 31.796 feet, m.s.l.

REMARKS:-

Altitude of stations determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Rocky Hill, Connecticut
Connecticut Foundry Company
Point Number 84

September 22 to September 26, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
Station 84-1		
1:45PM	4.13	26.291
2:05	3.56	26.861
3:55	3.35	27.071
4:55	3.01	27.411
5:50	2.67	27.751
Station 84-2		
5:50PM	3.74	27.681
6:50	3.26	28.161
8:50	2.80	28.621
10:12	2.42	29.001
September 23		
12:10AM	1.93	29.491
1:10	1.72	29.701
Station 84-3		
2:10AM	2.81	29.926
3:05	2.66	30.076
4:12	2.44	30.296
5:14	2.25	30.486
6:15	2.04	30.696
Station 84-4		
6:15AM	2.50	30.706
7:15	2.39	30.916
8:15	2.22	30.986
9:05	2.13	31.076
10:55	1.93	31.276
11:55	1.83	31.376
1:05PM	1.72	31.486
2:08	1.65	31.556
3:11	1.57	31.636
4:30	1.50	31.706
5:28	1.43	31.776
6:56	1.40	31.806
September 24		
12:55AM	1.48	31.726
2:35	1.53	31.676

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)		
Station 84-4		
4:30AM	1.63	31.576
5:50	1.71	31.496
Station 84-5		
9:06AM	0.59	31.20
10:32	0.75	31.04
11:34	0.85	30.94
1:45PM	1.18	30.61
3:37	1.38	30.41
5:00	1.60	30.19
Station 84-2		
7:30PM	1.62	29.801
8:45	1.81	29.611
11:35	2.31	29.111
September 25		
2:00AM	2.76	28.661
3:30	3.07	28.351
6:00	3.45	27.971
Station 84-1		
8:10AM	2.91	27.511
10:30	3.43	26.991
12:50PM	3.90	26.521
2:40	4.28	26.141
3:45	4.51	25.911
5:05	4.82	25.601
8:10	5.45	24.971
9:52	5.85	24.571
11:25	6.20	24.221
September 26		
2:15AM	6.77	23.651
4:40	7.27	23.151
7:25	7.96	22.461
9:20	8.32	22.101
11:35	8.75	21.671
2:15PM	9.13	21.291

Gauge Heights at Rocky Hill, Connecticut
Grey House With Green Trim North of Connecticut Foundry
Point Number 86
Approximately 40.3 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 1:45PM, September 22 to 9:15AM, September 27, 1938.

FLOOD CREST ALTITUDE:- 31.909 feet m.s.l. (measured)

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 86-1	Top of nail at southwest corner of porch at southeast end of house. Elevation 29.511 feet, m.s.l.
Station 86-2	Top of nail in southwest corner of house. Elevation 33.489 feet, m.s.l.
Station 86-3	Copper high water mark plug directly under Station 86-2. Elevation 31.976 feet, m.s.l.
Station 86-4	Top of nail in pole under rear porch. Elevation 24.590 feet, m.s.l.
Station 86-5	Top of nail in south rail of steps leading to water. Elevation 23.493 feet, m.s.l.
Station 86-6	Top of nail in 4-inch maple 3 feet east of Station 86-5. Elevation 20.932 feet, m.s.l.

REMARKS:-

Altitude of stations determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Rocky Hill, Connecticut
Grey House With Green Trim North of Connecticut Foundry
Point Number 86

September 22 to September 27, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
Station 86-1		
1:45PM	3.09	26.421
2:10	2.51	27.001
3:50	2.26	27.251
4:50	1.90	27.611
5:50	1.62	27.851
6:55	1.18	28.331
8:47	0.66	28.851
10:10	0.32	29.191
Station 86-2		
11:05	3.80	29.689
September 23		
1:00AM	3.57	29.919
2:00	3.40	30.089
3:00	3.22	30.269
4:00	3.00	30.489
5:09	2.82	30.669
6:20	2.60	30.889
7:15	2.48	31.009
8:20	2.34	31.149
10:50	2.04	31.449
12:05PM	1.92	31.569
2:12	1.76	31.729
3:07	1.70	31.789
4:33	1.62	31.869
5:33	1.58	31.909
September 24		
12:40AM	1.60	31.889
2:30	1.66	31.829
4:20	1.76	31.729
5:45	1.85	31.639
8:05	2.03	31.459
Station 86-3		
9:00AM	0.53	31.446
10:28	0.69	31.286
11:29	0.80	31.176
1:37PM	1.06	30.916

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)		
Station 86-3		
3:42PM	1.31	30.666
4:50	1.50	30.476
7:26	1.89	30.086
8:40	2.02	29.956
Station 86-1		
11:20PM	0.19	29.321
September 25		
1:55AM	0.68	28.831
3:45	1.06	28.451
5:50	1.45	28.061
8:00	1.85	27.661
10:15	2.34	27.171
12:25PM	2.81	26.701
3:15	3.43	26.081
4:50	3.76	25.751
8:00	4.47	25.041
9:47	4.86	24.651
11:15	5.19	24.321
September 26		
2:05AM	5.83	23.681
4:35	6.50	23.011
Station 86-4		
7:10AM	2.00	22.590
9:15	2.34	22.250
11:20	2.69	21.900
1:05PM	2.91	21.680
Station 86-5		
3:35PM	2.76	20.733
5:20	3.15	20.343
6:15	3.53	19.963
7:30	3.59	19.903
8:45	3.85	19.643
10:15PM	4.19	19.303

Gauge Heights at Rocky Hill, Connecticut (continued)

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 27		
12:00Mid	4.60	18.893
1:30AM	4.86	18.633
	Station 86-5	
3:30AM	5.27	18.223

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 27 (continued)		
	Station 86-6	
5:45AM	3.15	17.782
7:15	3.50	17.432
9:15	3.85	17.082

Gauge Heights at Rocky Hill, Connecticut
Silas Deane Highway
Point Number 90
Approximately 42.6 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 8:45AM, September 23 to 11:55PM, September 24, 1938.

FLOOD CREST ALTITUDE:- 32.554 feet, m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 90-1 Nail in 27th post, 100 feet north of high tension wire line, and 0.2 mile north of H.E.L. Company pole 703 on west side of highway. Elevation 35.064 feet, m.s.l.

Station 90-2 United States Geological Survey button in same post at Station 4-1. Elevation 32.590 feet, m.s.l.

Station 90-3 Spike in 11th post from connecting cable, east side of highway. Elevation 32.631 feet, m.s.l.

REMARKS:-

Elevations were determined at these points by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Rocky Hill, Connecticut
Silas Deane Highway
Point Number 90

September 23 to September 24, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 23		
	Station 90-1	
8:45AM	3.38	31.684
10:15	3.20	31.864
12:05PM	3.03	32.034
2:30	2.81	32.254
4:20	2.69	32.374
6:47	2.61	32.454
10:15	2.51	32.554
September 24		
1:00AM	2.65	32.414
2:00	2.68	32.384
4:35	2.79	32.274
6:15	2.89	32.174

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)		
	Station 90-1	
8:00AM	3.04	32.024
	Station 90-2	
10:51AM	0.80	31.790
	Station 90-3	
1:05PM	1.05	31.581
3:24	1.30	31.331
6:23	1.82	30.811
7:55	2.06	30.571
10:33	2.50	30.131
11:35	2.67	29.961

Gauge Heights at Wethersfield, Connecticut
Silas Deane Highway South of Hill Street
Point Number 92
Approximately 43.1 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 8:35AM, September 23 to 5:15PM, September 25, 1938.

FLOOD CREST ALTITUDE:- 32.546 feet, m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 92-1 Top of nail in highway post 8 feet north of H.E.Lt. Company pole 1543 on east side road. Elevation 35.436 feet, m.s.l.

Station 92-2 Top of nail in second pole south of H.E.Lt. Company pole 1544. Elevation 32.967 feet, m.s.l.

Station 92-3 Top of nail in H.E.Lt. Company pole 1545. Elevation 31.532 feet, m.s.l.

REMARKS:-

Altitude of stations determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Wethersfield, Connecticut
South of Mill Street - East Side Silas Deane
Point Number 92

September 23 to September 25, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 23		
	Station 92-1	
9:35AM	3.53	31.906
11:15	3.34	32.096
3:30PM	3.02	32.416
5:56	2.95	32.486
9:30	2.89	32.546
11:45	2.97	32.466
September 24		
1:15AM	3.02	32.416
3:25	3.10	32.336
5:00	3.22	32.216
6:10	3.31	32.126
	Station 92-2	
10:03AM	1.18	31.787

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)		
	Station 92-2	
12:18PM	1.45	31.517
2:34	1.77	31.197
5:33	2.18	30.787
6:44	2.40	30.567
9:40	G.L.	-
	Station 92-3	
10:17PM	1.42	30.112
September 25		
12:15AM	1.85	29.682
2:30	2.44	29.092
4:15	2.51	29.022

Gauge Heights at Wethersfield, Connecticut
Middletown Avenue at Warner Place
Point Number 94
Approximately 43.7 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 12:15PM, September 22 to 2:50PM, September 26, 1938.

FLOOD CREST ALTITUDE:- 32.518 feet m.s.l. (not determined from gauge heights)

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 94-1 Top of nail in west side of 25th post from north end of highway fence on the west side of Middletown Avenue south of intersection of Warner Place. Elevation 29.552 feet, m.s.l.

Station 94-2 Top of nail in 13th post from north end of highway fence on the west side of Middletown Avenue, south of intersection of Warner Place. Elevation 30.722 feet, m.s.l.

Station 94-3 Top of nail in 7th post from north end of highway fence on the west side of Middletown Avenue south of intersection of Warner Place. Elevation 31.423 feet, m.s.l.

Station 94-4 Top of nail in east side of 25th post from north end of highway fence on the west side of Middletown Avenue south of the intersection of Warner Place. Elevation 29.183 feet, m.s.l.

Station 94-5 Top of nail in S.N.E.T. pole #112 on the east side of Middletown Avenue, south of the intersection of Warner Place. Elevation 28.188 feet, m.s.l.

Station 94 High water mark is a copper plug in the southeast veranda post of house of H. G. Wilson, 11 Maple Street. Elevation 32.518 feet, m.s.l.

REMARKS:-

No readings were obtained between 7:45AM, September 22 and 6:45AM, September 25, 1938, thus there are no readings at the crest of the flood. The high water mark was set on the evidence of scum and water lines on window screens and house wall.

High Heights at Indianapolis, Indiana
Relative values at Tanner Place
Point Number 24
Approximately 4.7 miles from Garfield Park

OBSERVED BY:- Commission Flood Water Survey.

PERIOD:- January, September 22 to October, December 22, 1913.

FLOOD CREST INDICATED:- 32.618 feet m.s.l. (not determined - [illegible] [illegible])

DATE:- Indiana States Canal and Economic Survey, Water Res. [illegible].

LOCATION OF GAUGE:-

Station 24-1 — Top of wall on west side of [illegible] post from north end of highway fence on the west side of Middlebrook Avenue, south of intersection of Tanner Place. Elevation 32.652 feet, m.s.l.

Station 24-2 — Top of wall in 16th post from north end of highway fence on the west side of Middlebrook Avenue, south of intersection of Tanner Place. Elevation 30.722 feet, m.s.l.

Station 24-3 — Top of wall in 7th post from north end of highway fence on the west side of Middlebrook Avenue, south of intersection of Tanner Place. Elevation 31.421 feet, m.s.l.

Station 24-4 — Top of wall in east side of 2nd post from north end of highway fence on the west side of Middlebrook Avenue, south of the intersection of Tanner Place. Elevation 29.183 feet, m.s.l.

Station 24-5 — Top of wall in S.W.C. pole 2112 on the east side of Middlebrook Avenue, south of the intersection of Tanner Place. Elevation 34.[illegible] feet, m.s.l.

Station 24 — High water mark is a copper plug in the southeast vertical post of house of H. E. Wilson, 11 Maple Street. Elevation 32.618 feet, m.s.l.

REMARKS:-

The readings were taken between 7:45AM, September 22 and 8:45AM, September 23, 1913. Blue dots are on readings at the crest of the flood. The high water mark was set on the evidence of scum and water lines on window screens and house wall.

REMARKS:- (continued)

Altitude of stations determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Wethersfield, Connecticut
Middletown Avenue Near Warner Place
Point Number 94

September 22 to September 26, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
Station 94-1		
12:15PM	2.28	27.272
Station 94-2		
2:45PM	3.04	27.632
3:45	2.71	28.012
5:05	2.26	28.462
6:30	1.75	28.972
Station 94-3		
6:30PM	2.40	29.023
7:45	2.05	29.373

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 25		
Station 94-4		
6:45AM	1.16	28.023
9:10	1.65	27.533
11:20	2.11	27.073
1:30PM	2.63	26.550
Station 94-5		
6:45PM	2.35	25.838
8:45	2.80	25.388
10:20	3.15	25.038
September 26		
1:20AM	3.84	24.348
2:50	4.17	24.018

Gauge Heights at Wethersfield, Connecticut
Elm Street
Point Number 96
Approximately 44.8 miles from Saybrook Light

OBSERVED BY;- Connecticut Ground Water Survey.

PERIOD:- 11:45AM, September 22 to 8:30AM, September 26, 1938.

FLOOD CREST ALTITUDE:- 32.442 feet m.s.l. (not determined from gauge heights)

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 96-1	Top of nail in first post of highway fence on south side of Elm Street. Elevation 29.341 feet, m.s.l.
Station 96-2	Top of nail in south side of S.N.E.T. pole #554 on Elm Street. Elevation 30.224 feet, m.s.l.
Station 96-3	Top of nail in fence post at S.N.E.T. pole #555 on Elm Street. Elevation 27.491 feet, m.s.l.
Station 96-4	Top of nail in twentieth fence post in north fence line east of S.N.E.T. pole #555 on Elm Street. Elevation 25.342 feet, m.s.l.
Station 96	High water mark is a copper plug in south side of S.N.E.T. pole #554. Elevation 32.442 feet, m.s.l.

REMARKS:-

No readings were obtained at this location between 7:37PM, September 22 and 6:30AM, September 25, 1938, thus there were no readings at flood crest. High water mark set on evidence of scum lines on pole #554 and nearby objects.

Altitude of stations determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Wethersfield, Connecticut
Elm Street
Point Number 96

September 22 to September 26, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
Station 96-1		
11:45AM	2.29	27.051
Station 96-2		
2:30PM	2.37	27.854
3:55	1.93	28.294
4:55	1.56	28.664
6:25	1.06	29.164
7:37	0.75	29.474
September 25		
Station 96-1		
6:30AM	0.79	28.551
9:00	1.31	28.031
11:15	1.36	27.981

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 25 (continued)		
Station 96-1		
1:35PM	2.29	27.051
Station 96-3		
7:00PM	1.59	25.901
8:51	2.00	25.491
10:25	2.32	25.171
September 26		
Station 96-4		
1:15AM	0.82	24.522
2:45	1.15	24.192
5:40	1.76	23.582
8:30	2.34	23.002

Gauge Heights at Wethersfield, Connecticut
Main Street Near Railroad Tracks
Point Number 98
Approximately 46.6 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 8:50AM, September 23 to 11:05PM, September 25, 1938.

FLOOD CREST ALTITUDE - 32.720 feet m.s.l. (not determined from gauge heights)

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 98-1 Nail in pole #624, south side of Main St. Elevation 34.915 feet, m.s.l.

Station 98-2 Nail in 6th post east of station #1. Elevation 32.274 feet, m.s.l.

Station 98-3 Nail in pole #625. Elevation 30.141 feet, m.s.l.

Station 98-4 Nail in first highway post at corner of Spring and Main Streets. Elevation 27.376 feet, m.s.l.

REMARKS:-

Elevations were determined at these points by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Wethersfield, Connecticut
Main Street Near Railroad Tracks
Point Number 98

September 23 to September 25, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 23		
Station 98-1		
8:50AM	2.63	32.195
10:20	2.49	32.335
12:50PM	2.32	32.505
2:26	2.18	32.645
5:00	2.11	32.715
8:36	2.10	32.725
10:35	2.13	32.695
September 24		
2:15AM	2.29	32.535
3:55	2.38	32.445
4:55	2.46	32.365
Station 98-2		
9:08AM	0.78	31.498
11:25	1.01	31.264
1:39PM	1.33	30.944
4:40	1.30	30.974
5:35	1.44	30.834

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)		
Station 98-2		
8:45PM	2.00	30.274
11:30	2.45	29.824
September 25		
Station 98-3		
1:30AM	0.68	29.461
3:25	1.02	29.121
5:10	1.43	28.711
8:20	2.09	27.951
9:45	2.41	27.731
Station 98-4		
12:25PM	0.13	27.246
5:35	1.20	26.176
7:33	1.72	25.656
9:10	2.00	25.376
11:05	2.30	25.076

Gauge Heights at Thompsonville, Enfield, Connecticut
Bigelow-Sanford Co. Inc.
Point Number 101
Approximately 68.9 miles from Saybrook Light

OBSERVED BY:- Employees of Bigelow-Sanford Co. Inc.

PERIOD:- 7:40AM, September 21 to 12:00 Noon, September 26, 1938.

FLOOD CREST ALTITUDE:- 55.983 feet, mean sea level.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Top of retaining wall at power plant, 100 feet north of south end of wall.

ALTITUDE OF ZERO OF GAUGE:- 55.40 feet, m.s.l.

REMARKS:-

No readings were obtained at the crest of the flood as gauge point was under water. The measurement at 6:00AM, September 23rd is probably lower than actual flood crest. Difference between 1938 and 1936 crests as shown by measurements given is 2.567 feet which is more than one foot greater than such differences near the railroad bridge over the Connecticut River and at Warehouse Point.

Zero of gauge and high water mark referenced to mean sea level by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Thompsonville, Enfield, Connecticut
Bigelow-Sanford Co. Inc.
Point Number 101
September 21 to September 26, 1938

Zero of Gauge - 55.40 feet above M. S. L.

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 21		
7:40AM	7.91b	47.49
8:20	7.75b	47.65
9:10	7.58b	47.82
9:45	7.33b	48.07
10:45	7.12b	48.28
11:45	6.87b	48.53
12:55PM	6.58b	48.82
1:50	6.29b	49.11
2:50	6.00b	49.40
9:00	3.33b	52.07
10:00	3.00b	52.40
11:00	2.91b	52.49
12:00Mid	2.67b	52.73
September 22		
1:00AM	2.25b	53.15
2:00	1.58b	53.82
3:00	0.91b	54.49
4:00	0.25b	55.15
5:00	0.00	55.40
6:00	0.16a	55.56
September 23		
6:00AM	0.58a	55.98
12:00Noon	0.25a	55.65
2:00PM	0.12a	55.52
3:00	0.00	55.40
3:30	0.08b	55.32
4:00	0.08b	55.32
5:00	0.25b	55.15
6:00	0.33b	55.07
7:00	0.42b	54.98
September 23 (continued)		
8:00PM	0.58b	54.82
9:00	0.67b	54.73
10:00	0.79b	54.61
11:00	0.87b	54.53
12:00Mid	0.95b	54.45
September 24		
1:00AM	1.25b	54.15
2:00	1.35b	54.05
3:00	1.50b	53.90
4:00	1.71b	53.69
5:00	1.87b	53.53
6:00	1.91b	53.49
7:00	2.08b	53.32
8:00	2.29b	53.11
9:00	2.42b	52.98
10:00	2.58b	52.82
11:00	2.83b	52.57
12:00Noon	3.00b	52.40
1:00PM	3.12b	52.28
2:00	3.27b	52.13
3:00	3.39b	52.01
4:00	3.52b	51.88
5:00	3.69b	51.71
6:00	3.91b	51.49
7:00	4.04b	51.36
8:00	4.16b	51.24
9:00	4.52b	50.88
September 26		
6:15AM	8.46b	46.94
12:00Noon	8.91b	46.49

a - readings above zero of gauge
b - readings below zero of gauge

Gauge Heights at Enfield, Connecticut
Enfield Dam
Point Number 101 A
Approximately 68.0 miles from Saybrook Light

OBSERVED BY:- United States Department of Interior,
Geological Survey.

PERIOD:- 1:00AM, September 21 to 12:00M, September 26, 1938.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

FLOOD CREST ALTITUDE:- 52.88 feet, m.s.l.

LOCATION OF GAUGE:-

A water-stage recorder located in pool above Enfield Dam one mile below Thompsonville.

ELEVATION:- 0.00 gauge = 38.48 feet, mean sea level.

REMARKS:-

Readings furnished by United States Geological Survey, Hartford Branch.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Enfield, Connecticut
United States Department of the Interior
Geological Survey Station
Point Number 101A
September 21 to September 27, 1938

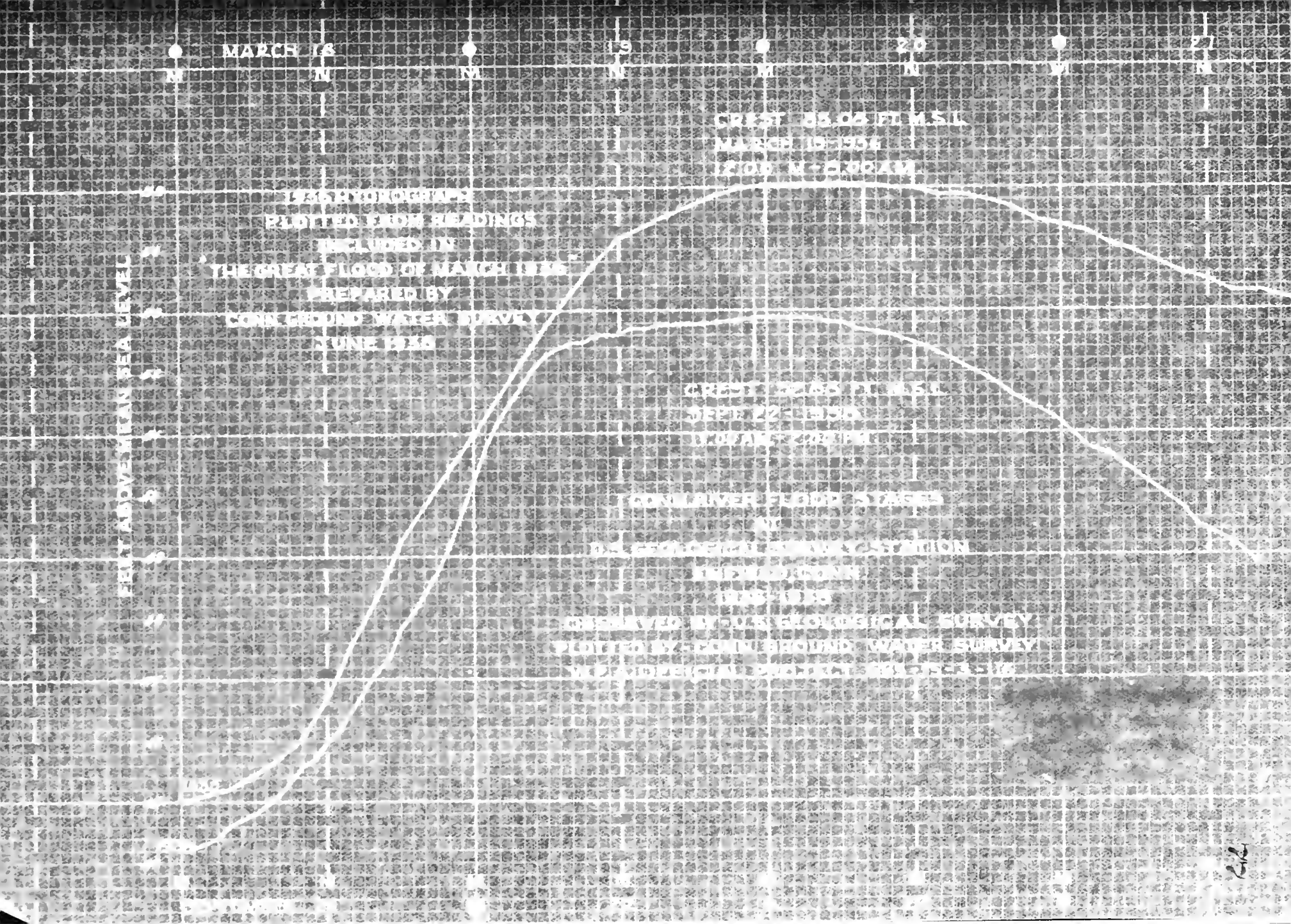
Zero of gauge - 38.48' above M.S.L.

TIME E.S.T.	STAGE HEIGHT (feet)	ELEVATION M.S.L.	STAGE HEIGHT (feet)	ELEVATION M.S.L.	STAGE HEIGHT (feet)	ELEVATION M.S.L.
	September 21, 1938		September 22, 1938		September 23, 1938	
1:00AM	5.75	44.23	12.30	50.78	14.40	52.88
2:00	5.82	44.30	12.75	51.23	14.40	52.88
3:00	5.96	44.44	13.03	51.53	14.39	52.87
4:00	6.10	44.58	13.35	51.83	14.37	52.85
5:00	6.19	44.67	13.62	52.10	14.33	52.83
6:00	6.32	44.80	13.80	52.28	14.30	52.78
7:00	6.48	44.96	13.93	52.41	14.26	52.74
8:00	6.66	45.14	14.00	52.48	14.22	52.70
9:00	6.87	45.35	14.05	52.53	14.16	52.64
10:00	7.09	45.57	14.09	52.57	14.10	52.58
11:00	7.28	45.76	14.13	52.61	14.04	52.52
12:00Noon	7.50	45.98	14.15	52.63	13.96	52.44
1:00PM	7.72	46.20	14.19	52.67	13.88	52.36
2:00	7.97	46.45	14.24	52.72	13.80	52.28
3:00	8.31	46.79	14.27	52.75	13.72	52.20
4:00	8.58	47.06	14.30	52.78	13.60	52.08
5:00	8.87	47.35	14.33	52.81	13.50	51.98
6:00	9.32	47.80	14.33	52.81	13.40	51.88
7:00	9.57	48.05	14.34	52.82	13.27	51.75
8:00	9.92	48.40	14.35	52.83	13.14	51.62
9:00	10.23	48.71	14.36	52.84	13.00	51.48
10:00	10.68	49.16	14.38	52.86	12.92	51.40
11:00	11.20	49.68	14.40	52.88	12.80	51.28
12:00Mid.	11.71	50.19	14.40	52.88	12.67	51.15

Gauge Heights at Enfield, Connecticut (cont'd)

TIME E.S.T.	STAGE HEIGHT (feet)	ELEVATION M.S.L.	STAGE HEIGHT (feet)	ELEVATION M.S.L.	STAGE HEIGHT (feet)	ELEVATION M.S.L.
	September 24, 1938		September 25, 1938		September 26, 1938	
2:00AM	12.43	50.81	8.94	47.42	6.48	44.96
4:00	12.17	50.65	8.65	47.13	6.36	44.84
6:00	11.87	50.35	8.39	46.87	6.24	44.72
8:00	11.58	50.06	8.14	46.62	6.11	44.59
10:00	11.27	49.75	7.88	46.36	6.00	44.48
11:00	10.97	49.45	7.68	46.16	5.90	44.38
2:00PM	10.67	49.15	7.48	45.96	5.77	44.25
4:00	10.38	48.86	7.30	45.78	5.65	44.13
6:00	10.09	48.57	7.12	45.60	5.57	44.05
8:00	9.83	48.31	6.96	45.44	5.47	43.95
10:00	9.48	47.96	6.79	45.27	5.37	43.85
12:00Mid.	9.21	47.69	6.63	45.11	5.28	43.76

United States Department of the Interior data.


MARCH 18
19
20
21
M
N
CREST 88.06 FT. M.S.L.
MARCH 19 1936
12:00 M. TO 1:00 A.M.
PLOTTED FROM READINGS
INCLUDED IN
THE GREAT FLOOD OF MARCH 1936
PREPARED BY
GROUND WATER SURVEY
JUNE 1936
CREST 87.45 FT. M.S.L.
MARCH 22 1936
12:00 M. TO 1:00 A.M.
OBSERVED BY U.S. GEOLOGICAL SURVEY
PLOTTED BY GROUND WATER SURVEY

Gauge Heights at Wethersfield, Connecticut
Intersection of Broad and Marsh Streets
Point Number 102
Approximately 46.6 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 11:20AM, September 22 to 8:15AM, September 26, 1938.

FLOOD CREST ALTITUDE:- 32.786 feet, m.s.l. (not determined from gauge heights)

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 102-1 Nail in H.E.Lt Co. pole 98 at the intersection of Broad and Marsh Streets. Elevation 29.454 feet, m.s.l.

Station 102-2 Top of third iron pipe in fence 100 feet southeast of H.E.Lt Co. pole 98. Elevation 31.643 feet, m.s.l.

Station 102-3 Top of fifth iron pipe in same fence as for Station 102-2. Elevation 32.455 feet, m.s.l.

Station 102-4 Top of nail in H.E.Lt Co. pole 99 on Broad Street near corner of Marsh Street. Elevation 26.838 feet, m.s.l.

Station 102 High water mark is a keel mark on the southwest corner, west face of 76 Marsh Street. Elevation 32.786 feet, m.s.l.

REMARKS:-

No readings were obtained at this location between 10:50PM, September 22 and 6:15AM, September 25, 1938, thus there were no readings at the crest of the flood. High water mark was set on evidence of scum lines and water lines on inside and outside of house.

Altitude of stations determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Wethersfield, Connecticut
Intersection of Broad and Marsh Streets
Point Number 102

September 22 to September 26, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
	Station 102-1	
11:20AM	2.06	27.394
	Station 102-2	
2:15PM	3.71	27.933
3:30	3.35	28.293
4:30	3.01	28.633
6:05	2.40	29.243
	Station 102-3	
7:05PM	3.24	29.215
7:30	2.90	29.555
10:50	2.00	30.455
September 25		
	Station 102-2	
6:15AM	2.97	28.673

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 25 (continued)		
	Station 102-2	
8:45AM	3.45	28.193
	Station 102-1	
11:05AM	1.65	27.804
1:45PM	2.26	27.194
7:07	3.43	26.024
	Station 102-4	
9:05PM	1.26	25.578
10:33	1.57	25.268
September 26		
12:55AM	2.11	24.728
2:40	2.47	24.368
5:30	3.00	23.838
8:15	3.62	23.218

Gauge Heights for Hartford, Connecticut
Bulkeley Memorial Bridge
Point Number 110 A
Approximately 52.0 miles from Saybrook Light

OBSERVED BY:- United States Department of Agriculture, Weather Bureau.

PERIOD:- 1:00AM, September 19 to 12:00M, October 2, 1938.

FLOOD CREST ALTITUDE:- 34.88 feet, m.s.l.

DATUM:- United States Engineers, Hartford Datum

LOCATION OF GAUGE:- Bulkeley Memorial Bridge

ELEVATION:- 0.00 gauge = 0.54 feet below m.s.l. *

REMARKS:-

Automatic Water Stage Recorder. Gauge readings converted to mean sea level by Connecticut Ground Water Survey.

* See pages following stage heights listings for diagram of various level systems - City of Hartford.

Gauge Heights for Hartford, Connecticut
United States Department of Agriculture, Weather Bureau
Gauge referred to U. S. Corps of Engineers Hartford Datum
Point Number 110 A
September 19 to October 2, 1938

Zero of gauge - 0.54 feet below M.S.L.

TIME E.S.T.	GAUGE HEIGHT	ELEVATION M.S.L.
September 19		
1:00AM	5.33	4.79
2:00	5.24	4.70
3:00	5.20	4.66
4:00	5.12	4.58
5:00	5.03	4.49
6:00	4.96	4.42
7:00	4.91	4.37
8:00	4.92	4.38
9:00	5.03	4.49
10:00	5.17	4.63
11:00	5.27	4.73
12:00Noon	5.35	4.81
1:00PM	5.33	4.79
2:00	5.32	4.78
3:00	5.38	4.84
4:00	5.26	4.72
5:00	5.32	4.78
6:00	5.29	4.75
7:00	5.29	4.75
8:00	5.36	4.82
9:00	5.53	4.99
10:00	5.68	5.14
11:00	5.83	5.29
12:00Mid	5.94	5.40
September 20		
1:00AM	6.04	5.50
2:00	6.22	5.68
3:00	6.33	5.79
4:00	6.44	5.90
5:00	6.57	6.03
6:00	6.63	6.09
7:00	6.96	6.42
8:00	7.18	6.64
9:00	7.65	7.11
10:00	8.22	7.68
11:00	8.79	8.25
12:00Noon	9.28	8.74

TIME E.S.T.	GAUGE HEIGHT	ELEVATION M.S.L.
September 20 (continued)		
1:00PM	9.85	9.31
2:00	10.38	9.84
3:00	10.88	10.34
4:00	11.36	10.82
5:00	11.87	11.33
6:00	12.35	11.81
7:00	12.80	12.26
8:00	13.22	12.68
9:00	13.80	13.26
10:00	14.36	13.82
11:00	14.84	14.30
12:00Mid	15.49	14.95
September 21		
1:00AM	16.06	15.52
2:00	16.57	16.03
3:00	17.05	16.51
4:00	17.47	16.93
5:00	17.88	17.34
6:00	18.27	17.73
7:00	18.64	18.10
8:00	19.00	18.46
9:00	19.35	18.81
10:00	19.67	19.13
11:00	20.03	19.49
12:00Noon	20.40	19.96
1:00PM	20.75	20.21
2:00	21.08	20.54
3:00	21.48	20.94
4:00	21.95	21.41
5:00	22.26	21.72
6:00	22.46	21.92
7:00	22.92	22.38
8:00	23.23	22.69
9:00	23.60	23.06
10:00	24.00	23.46
11:00	24.36	23.82
12:00Mid	24.79	24.25

Gauge Heights for Hartford, Connecticut (continued)

TIME E.S.T.	GAUGE HEIGHT	ELEVATION M.S.L.
September 22		
1:00AM	25.25	24.71
2:00	25.71	25.17
3:00	26.17	25.63
4:00	26.69	26.15
5:00	27.21	26.67
6:00	27.72	27.18
7:00	28.17	27.63
8:00	28.68	28.14
9:00	29.12	28.58
10:00	29.56	29.02
11:00	29.98	29.44
12:00Noon	30.40	29.86
1:00PM	30.76	30.22
2:00	31.12	30.58
3:00	31.46	30.92
4:00	31.80	31.26
5:00	32.09	31.55
6:00	32.39	31.85
7:00	32.65	32.11
8:00	32.90	32.36
9:00	33.14	32.60
10:00	33.34	32.80
11:00	33.58	33.04
12:00Mid	33.78	33.24
September 23		
1:00AM	33.98	33.44
2:00	34.16	33.62
3:00	34.30	33.76
4:00	34.42	33.88
5:00	34.56	34.02
6:00	34.68	34.14
7:00	34.82	34.28
8:00	34.93	34.39
9:00	35.01	34.47
10:00	35.08	34.54
11:00	35.18	34.64
12:00Noon	35.24	34.70
1:00PM	35.30	34.76
2:00	35.34	34.80
3:00	35.39	34.85
4:00	35.41	34.87
5:00	35.42	34.88
6:00	35.41	34.87
7:00	35.41	34.87
8:00	35.41	34.87
9:00	35.40	34.86
10:00	35.39	34.85
11:00	35.36	34.82
September 23 (continued)		
12:00Mid	35.34	34.80
September 24		
1:00AM	35.25	34.71
2:00	35.21	34.67
3:00	35.13	34.59
4:00	35.05	34.51
5:00	34.98	34.44
6:00	34.87	34.33
7:00	34.76	34.22
8:00	34.66	34.12
9:00	34.55	34.01
10:00	34.34	33.80
11:00	34.29	33.75
12:00Noon	34.15	33.61
1:00PM	34.02	33.48
2:00	33.87	33.33
3:00	33.73	33.19
4:00	33.55	33.01
5:00	33.41	32.87
6:00	33.24	32.70
7:00	33.05	32.51
8:00	32.88	32.34
9:00	32.68	32.14
10:00	32.49	31.95
11:00	32.32	31.78
12:00Mid	32.11	31.57
September 25		
1:00AM	31.92	31.38
2:00	31.70	31.16
3:00	31.40	30.86
4:00	31.30	30.76
5:00	31.19	30.65
6:00	30.92	30.38
7:00	30.68	30.14
8:00	30.34	29.80
9:00	30.22	29.68
10:00	30.03	29.49
11:00	29.79	29.25
12:00Noon	29.56	29.02
1:00PM	29.33	28.79
2:00	29.11	28.57
3:00	28.94	28.40
4:00	28.66	28.12
5:00	28.43	27.89
6:00	28.20	27.66
7:00	27.97	27.43

Gauge Heights for Hartford, Connecticut (continued)

TIME E.S.T.	GAUGE HEIGHT	ELEVATION M.S.L.
September 25 (continued)		
8:00PM	27.73	27.19
9:00	27.53	26.99
10:00	27.30	26.76
11:00	27.09	26.55
12:00Mid	26.86	26.32
September 26		
1:00AM	26.64	26.10
2:00	26.42	25.88
3:00	26.21	25.67
4:00	25.97	25.43
5:00	25.76	25.22
6:00	25.52	24.98
7:00	25.31	24.77
8:00	25.12	24.58
9:00	24.89	24.35
10:00	24.69	24.15
11:00	24.48	23.94
12:00Noon	24.26	23.72
1:00PM	24.03	23.49
2:00	23.86	23.32
3:00	23.64	23.10
4:00	23.44	22.90
5:00	23.24	22.70
6:00	23.03	22.49
7:00	22.81	22.27
8:00	22.63	22.09
9:00	22.42	21.88
10:00	22.23	21.69
11:00	22.04	21.50
12:00Mid	21.83	21.29
September 27		
1:00AM	21.63	21.09
2:00	21.44	20.90
3:00	21.26	20.72
4:00	21.05	20.51
5:00	20.87	20.33
6:00	20.66	20.12
7:00	20.47	19.93
8:00	20.29	19.75
9:00	20.13	19.59
10:00	19.97	19.43
11:00	19.76	19.22
12:00Noon	19.60	19.06
1:00PM	19.42	18.88
2:00	19.25	18.71
3:00	19.07	18.53
4:00	18.91	18.37
5:00	18.72	18.18
September 27 (continued)		
6:00PM	18.43	17.89
7:00	18.33	17.79
8:00	18.18	17.64
9:00	18.00	17.46
10:00	17.83	17.29
11:00	17.67	17.13
12:00Mid	17.52	16.98
September 28		
1:00AM	17.34	16.80
2:00	17.18	16.64
3:00	17.00	16.46
4:00	16.82	16.28
5:00	16.63	16.09
6:00	16.47	15.93
7:00	16.32	15.78
8:00	16.13	15.59
9:00	16.02	15.48
10:00	15.87	15.33
11:00	15.74	15.20
12:00Noon	15.60	15.06
1:00PM	15.47	14.93
2:00	15.36	14.82
3:00	15.23	14.69
4:00	15.09	14.55
5:00	14.98	14.44
6:00	14.87	14.33
7:00	14.75	14.21
8:00	14.63	14.09
9:00	14.48	13.94
10:00	14.35	13.81
11:00	14.20	13.66
12:00Mid	14.06	13.52
September 29		
1:00AM	13.90	13.36
2:00	13.74	13.20
3:00	13.56	13.02
4:00	13.37	12.83
5:00	13.18	12.64
6:00	13.00	12.46
7:00	12.84	12.30
8:00	12.64	12.10
9:00	12.53	11.99
10:00	12.38	11.84
11:00	12.26	11.72
12:00Noon	12.12	11.58
1:00PM	12.00	11.46
2:00	11.86	11.32
3:00	11.72	11.18

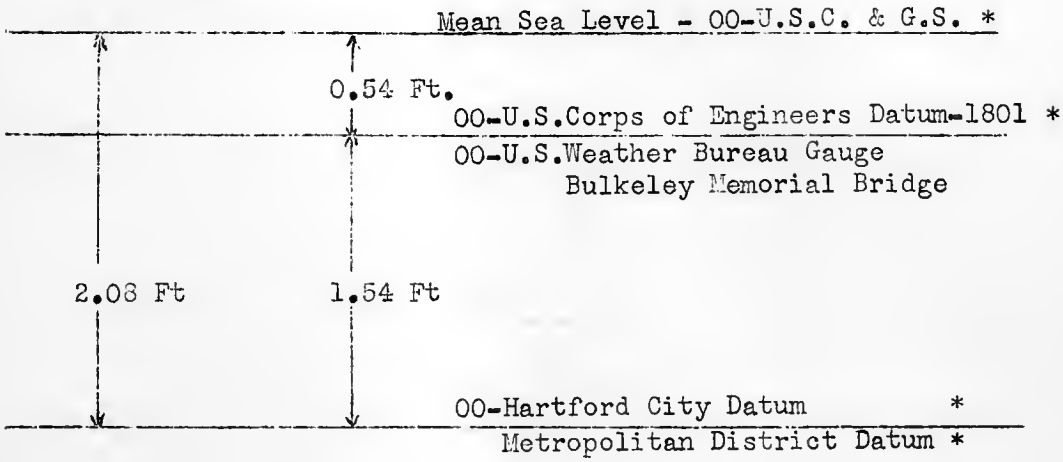
Gauge Heights for Hartford, Connecticut (continued)

TIME E.S.T.	GAUGE HEIGHT	ELEVATION M.S.L.
September 29 (continued)		
4:00PM	11.57	11.03
5:00	11.43	10.89
6:00	11.29	10.75
7:00	11.15	10.61
8:00	11.03	10.49
9:00	10.90	10.36
10:00	10.76	10.22
11:00	10.64	10.10
12:00Mid	10.52	9.98
September 30		
1:00AM	10.40	9.86
2:00	10.27	9.73
3:00	10.16	9.62
4:00	10.02	9.48
5:00	9.87	9.33
6:00	9.74	9.20
7:00	9.63	9.09
8:00	9.53	8.99
9:00	9.46	8.92
10:00	9.40	8.86
11:00	9.35	8.81
12:00Noon	9.31	8.77
1:00PM	9.27	8.73
2:00	9.24	8.70
3:00	9.21	8.67
4:00	9.18	8.64
5:00	9.15	8.61
6:00	9.14	8.60
7:00	9.14	8.60
8:00	9.14	8.60
9:00	9.13	8.59
10:00	9.11	8.57
11:00	9.08	8.54
12:00Mid	9.04	8.50
October 1		
1:00AM	8.99	8.45
2:00	8.93	8.39
3:00	8.85	8.31
4:00	8.76	8.22
5:00	8.67	8.13
6:00	8.58	8.04
October 1 (continued)		
7:00AM	8.52	7.98
8:00	8.44	7.90
9:00	8.38	7.84
10:00	8.36	7.82
11:00	8.32	7.78
12:00Noon	8.27	7.73
1:00PM	8.20	7.66
2:00	8.14	7.60
3:00	8.08	7.54
4:00	8.06	7.52
5:00	7.96	7.42
6:00	7.87	7.33
7:00	7.73	7.19
8:00	7.67	7.13
9:00	7.63	7.09
10:00	7.60	7.06
11:00	7.55	7.01
12:00Mid	7.48	6.94
October 2		
1:00AM	7.41	6.87
2:00	7.33	6.79
3:00	7.25	6.71
4:00	7.13	6.59
5:00	7.00	6.46
6:00	6.86	6.32
7:00	6.76	6.22
8:00	6.67	6.13
9:00	6.57	6.03
10:00	6.53	5.99
11:00	6.42	5.88
12:00Noon	6.40	5.86
1:00PM	6.37	5.83
2:00	6.33	5.79
3:00	6.31	5.77
4:00	6.27	5.73
5:00	6.23	5.69
6:00	6.20	5.66
7:00	6.18	5.64
8:00	6.20	5.66
9:00	6.23	5.69
10:00	6.28	5.74
11:00	6.30	5.76
12:00Mid	6.32	5.78

RELATION OF VARIOUS LEVEL SYSTEMS

used in
Hartford and Vicinity

based on
General Adjustment of U.S.Coast & Geodetic Survey of 1929



* These relations determined by comparison of elevations of seven U.S.Corps of Engineers benches and 18 U.S.C. & G.S. benches to elevations determined in Metropolitan District precise levelling. - Engineering Dept. City of Hartford, November 8, 1937.

RELATION OF VARIOUS LEVEL SYSTEMS
City of Hartford

U. S. C. & G. S. DATUM

Elevation: 0 = Mean Sea Level (Average of Tides)

U. S. ARMY ENGINEERS "HARTFORD DATUM"

Elevation: 0 = Low Water at Hartford in 1801

(NOTE: Water subsequently has reached lower levels due to closing of Windsor Locks gates, etc.)

HARTFORD CITY DATUM

Elevation: 0 = 2.08' below Mean Sea Level

= Approximate Low Water at Saybrook

NOTE: Metropolitan District Precise Levels run on City Datum.

RELATION BETWEEN DATUMS: (average)

GIVEN CITY DATUM ELEVATION

Subtract	2.08'	to get CGS elevation
Subtract	1.54'	to get USA elevation

GIVEN U. S. A. ENGINEER ELEVATION

Add	1.54'	to get City elevation
Subtract	0.54'	to get CGS elevation

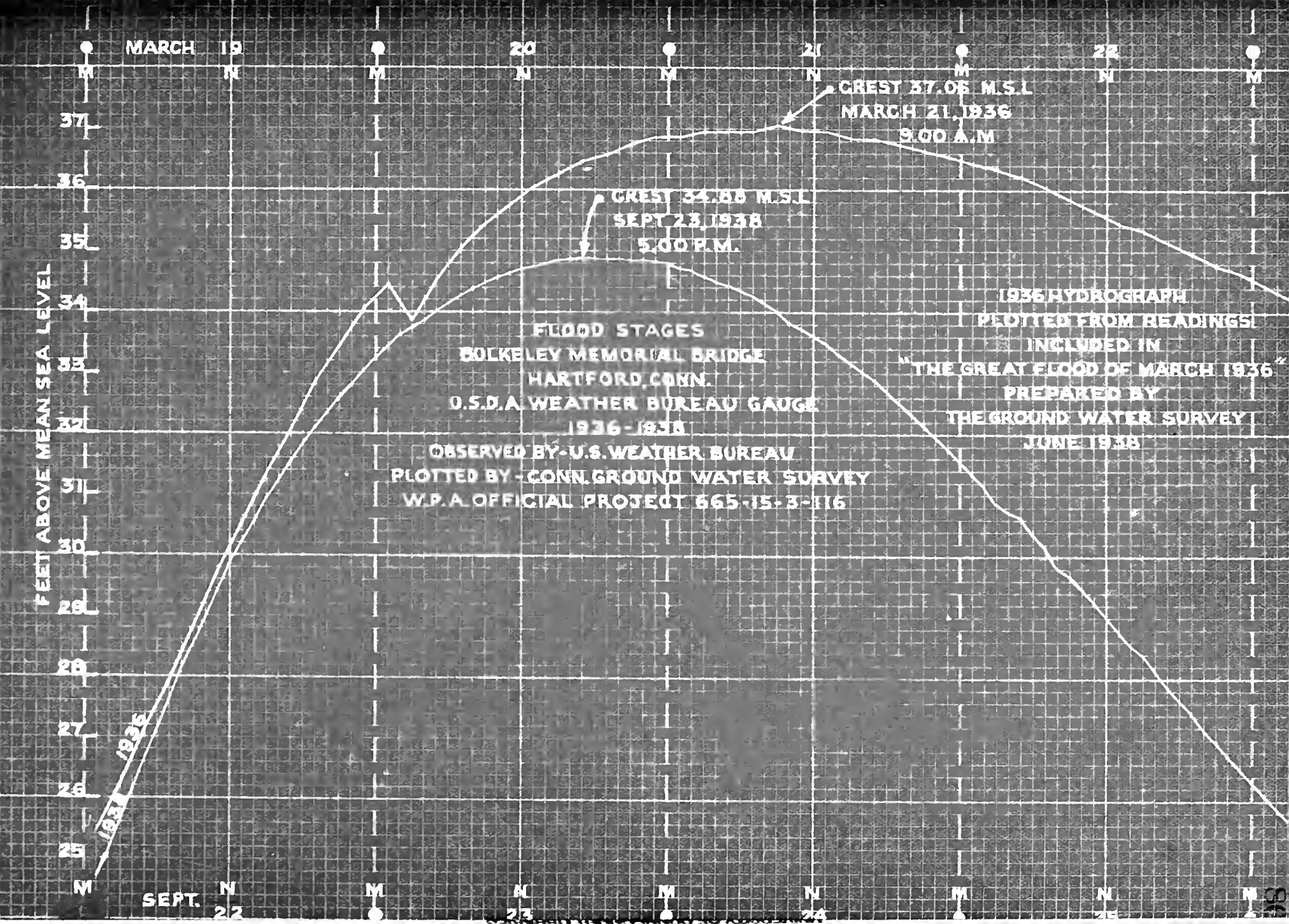
GIVEN C. G. S. ELEVATION

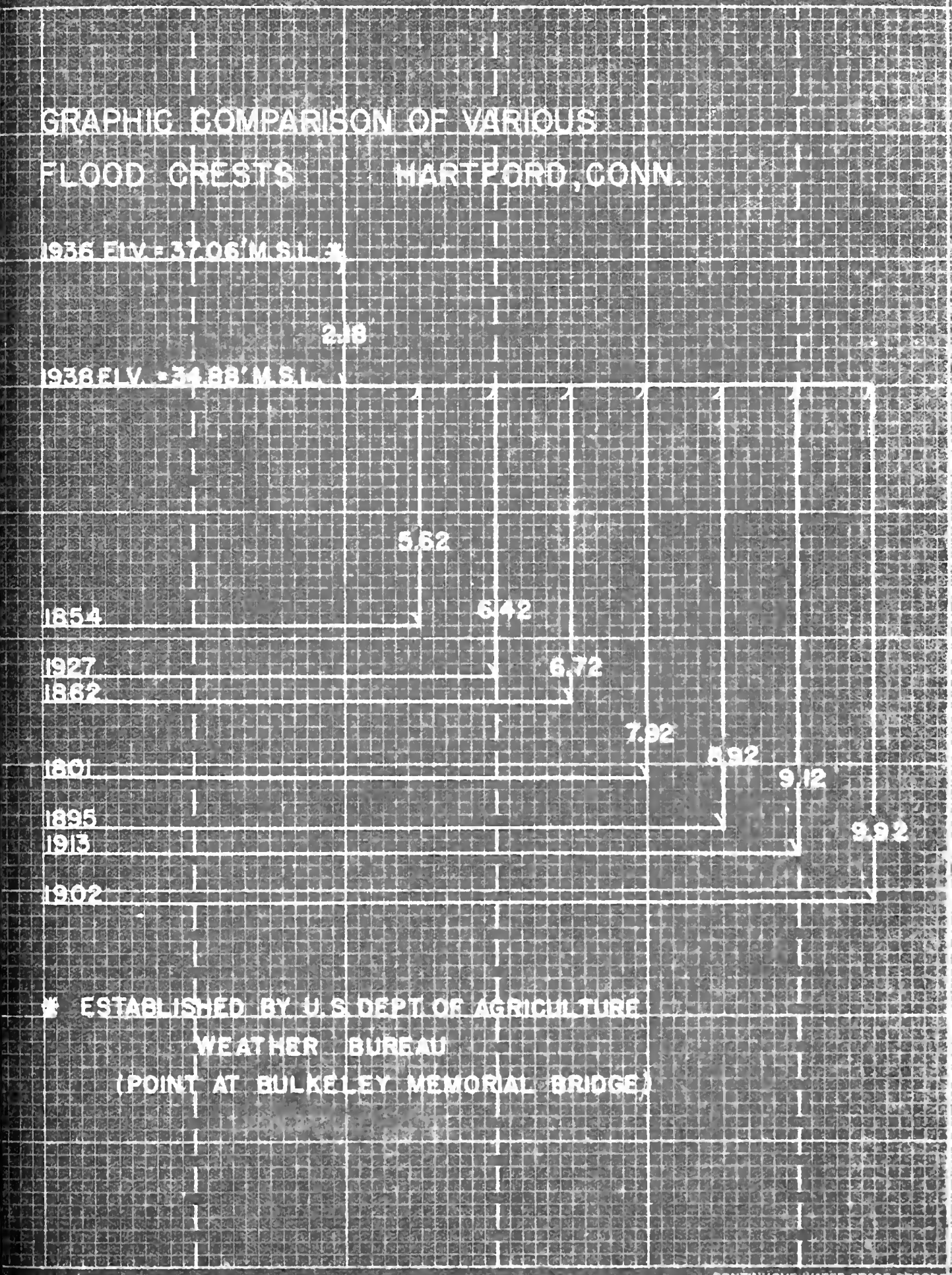
Add	2.08'	to get City elevation
Add	0.54'	to get USA elevation

NOTE: These relations determined by comparison of elevations of seven U.S.A. Engineer benches and 18 U.S.C.&G.S. benches to elevations determined in Metropolitan District Precise levelling.

Department of Engineering
City of Hartford

November 8, 1937


MARCH 19
20
21
22
CREST 37.06 M.S.L.
MARCH 21, 1936
9.00 A.M.
CREST 34.86 M.S.L.
SEPT 23, 1938
5.00 P.M.
FEET ABOVE MEAN SEA LEVEL
37
36
35
34
33
32
31
30
29
28
27
26
25
1936
1938
FLOOD STAGES
BOLKELEY MEMORIAL BRIDGE
HARTFORD, CONN.
U.S.D.A. WEATHER BUREAU GAUGE
1936 - 1938
OBSERVED BY - U.S. WEATHER BUREAU
PLOTTED BY - CONN. GROUND WATER SURVEY
W.P.A. OFFICIAL PROJECT 665-15-3-116
1936 HYDROGRAPH
PLOTTED FROM READINGS
INCLUDED IN
"THE GREAT FLOOD OF MARCH 1936"
PREPARED BY
THE GROUND WATER SURVEY
JUNE 1938
SEPT.
22
23
24
25


GRAPHIC COMPARISON OF VARIOUS
FLOOD CRESTS HARTFORD, CONN.
1936 ELV. = 37.06' M.S.L. *
2.18
1938 ELV. = 34.88' M.S.L.
5.62
1854
6.42
1927
6.72
1862
7.92
1801
8.92
9.12
1895
1913
9.92
1902
* ESTABLISHED BY U.S. DEPT. OF AGRICULTURE
WEATHER BUREAU
(POINT AT BULKELEY MEMORIAL BRIDGE)

Gauge Heights at Wilson, Windsor, Connecticut
Wilson Fire Station
Point Number 124
Approximately 55.0 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 1:30PM, September 22 to 1:30AM, September 25, 1938

FLOOD CREST ALTITUDE:- 36.35 feet, m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 124	Lower edge of first course of brick at chimney on east side of Wilson Fire Station. Elevation 36.89 feet, m.s.l.
Station 124 E	Blue keel mark on concrete foundation, north side of building, east of second window. Elevation 32.52 feet, m.s.l.
Station 124 D	Blue keel mark on concrete foundation, north side of building, west of second window. Elevation 32.97 feet, m.s.l.

REMARKS:-

Keel marks at Stations 124 E and 124 D were made at water level on September 22, 1938, at 1:30 and 3:00PM. Measurements were taken from Station 124.

Altitude of Stations determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Wilson, Windsor, Connecticut
Wilson Fire Station
Point Number 124
September 22 to September 25, 1938

Zero of Gauge, Station 124 - 36.89 feet M.S.L.

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
1:30PM	124 E	32.52
3:00PM	124 D	32.97
	Station 124	
3:00PM	3.70	33.19
4:45	3.42	33.47
6:40	2.91	33.98
8:00	2.58	34.31
10:17	2.13	34.76
11:30	1.91	34.98
September 23		
1:35AM	1.67	35.22
4:15	1.33	35.56
4:30	1.27	35.62
5:30	1.08	35.81
10:45	0.69	36.20
2:50PM	0.58	36.31
6:20	0.54	36.35
7:50	0.54	36.35
9:00	0.60	36.29
10:00	0.67	36.22
11:00	0.71	36.18
12:00Mid	0.77	36.12
September 24		
1:00AM	0.85	36.04

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)		
	Station 124	
2:00AM	0.92	35.97
3:00	1.00	35.89
4:00	1.07	35.82
5:00	1.16	35.73
6:00	1.28	35.61
7:00	1.37	35.52
8:00	1.50	35.39
9:00	1.60	35.29
9:15	1.67	35.22
10:00	1.75	35.14
11:00	1.83	35.06
12:00Noon	1.95	34.94
1:00PM	2.16	34.73
2:00	2.33	34.56
3:00	2.75	34.14
4:00	2.91	33.98
5:00	3.00	33.89
6:00	3.16	33.73
6:30	3.20	33.69
7:30	3.29	33.60
8:30	3.48	33.41
9:30	3.67	33.22
10:30	3.85	33.04
11:30	4.06	32.83
September 25		
12:30AM	4.27	32.62
1:30	4.54	32.35

Gauge Heights at Wilson, Windsor, Connecticut
Wilson Avenue, Windsor
Point Number 128
Approximately 55.5 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 1:45PM, September 22 to 3:30PM, September 27, 1938, with some additional measurements September 27 and 29, 1938.

FLOOD CREST ALTITUDE:- - 36.52 - 36.43 feet, m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF STATIONS:-

128	Nail in telephone pole 25 feet south of center line of Wilson Avenue and 25 feet east of center line of New York, New Haven and Hartford railroad tracks. Elevation 36.43 feet, m.s.l.
128-A	Nail in telephone pole 200 feet south of center line of Wilson Avenue and 35 feet west of center line of New York, New Haven and Hartford railroad tracks.
128-B	Nail in telephone pole 110 feet south of center line of Wilson Avenue and 35 feet west of center line of New York, New Haven and Hartford railroad tracks. Elevation 36.52 feet, m.s.l.
128-C	Nail in northeast corner of Rand and Christensen store house on Wilson Avenue just west of New York, New Haven and Hartford Railroad tracks. Elevation 36.44 feet, m.s.l.
128-D	Top of stake driven on south side of Wilson Avenue, 30 feet east of center line of New York, New Haven and Hartford railroad tracks. Elevation 34.76 feet, m.s.l.
128-E	Top of stake driven in south side of Wilson Avenue, 140 feet east of center line of New York, New Haven and Hartford railroad tracks. Elevation 31.47 feet, m.s.l.
128-F	Top of stake driven at the end of concrete sidewalk on south side of Wilson Avenue, 210 feet east of center line of New York, New Haven and Hartford railroad tracks. Elevation 30.51 feet, m.s.l.
128-G	Top of stake driven on south side of Wilson Avenue, on north side of Rand house. Elevation 29.16 feet, m.s.l.

LOCATION OF STATIONS:- (continued)

128-H Blue keel mark at top of concrete wall of manure pit, 26 feet west of northeast corner of the pit at Rand house. Elevation 26.97 feet, m.s.l.

128-I Blue keel mark at top of concrete wall of manure pit, at the northeast corner of the pit at the Rand house. Elevation 26.39 feet, m.s.l.

128-J Nail in H.E.Lt. Co. pole 1859 on south side of Wilson Avenue about half way between the Rand house and a small creek. Elevation 25.45 feet, m.s.l.

128-K Blue keel mark on top of railing of bridge over small creek, center of rail, south side of bridge, 4.75 feet above bridge deck. Elevation 20.27 feet, m.s.l.

128-L Top of stick nailed to tree at bank of the Connecticut River, about 75 feet north of east end of Wilson Avenue. Elevation 22.25 feet, m.s.l.

REMARKS:-

The following map, shows the location of the above measureing points. Measurements for all points are given in the following tabulations but those for points 128-B and 128-C show variations away from those at other stations very probably due to wave action or river surge. Measurements are all below a measuring point which is at crest height for stations 128, 128 B, 128 C. Only one measurement at Station A, point not recovered.

Altitude of measuring points determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Wilson, Windsor, Connecticut
Wilson Avenue, Windsor
Point Number 128

September 22 to September 27, 1938

TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.	TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.
September	22			September	24 (continued)		
1:45PM	128	3.86	32.57	3:30AM	128	0.48	35.95
5:00	128	2.74	33.69	3:33	B	0.48	36.04
7:00	128	2.24	34.19	3:35	C	0.50	35.94
8:30	128	1.87	34.56	4:30	128	0.58	35.85
10:45	128	1.49	34.94	4:33	B	0.57	35.95
12:00Mid.	128	1.20	35.23	4:35	C	0.59	35.85
				5:30	128	0.68	35.75
September	23			5:33	B	0.67	35.85
				5:35	C	0.70	35.74
2:30AM	128	0.91	35.52	6:30	128	0.78	35.65
7:00	128	0.37	36.06	6:33	B	0.77	35.75
	B	0.46	36.06	6:35	C	0.81	35.63
11:00	128	0.12	36.31	7:30	128	0.87	35.56
11:03	B	0.21	36.31	7:33	B	0.87	35.65
11:08	C	0.14	36.30	7:35	C	0.89	35.55
2:15PM	128	0.00	36.43	8:30	128	1.00	35.43
7:00	128	0.00	36.43	8:33	B	1.00	35.52
7:03	B	0.13	36.39	8:35	C	1.03	35.41
7:07	C	0.00	36.44	9:30	128	1.16	35.27
8:00	B	0.00	36.52	9:35	B	1.18	35.34
8:30	128	0.06	36.37	9:30	C	1.08	35.36
8:30	B	0.09	36.46	10:30	128	1.25	35.18
8:35	C	0.07	36.37	10:39	B	1.25	35.27
9:30	128	0.10	36.33	10:35	C	1.16	35.28
9:33	B	0.13	36.43	11:35	128	1.33	35.10
9:35	C	0.12	36.32	11:20	B	1.33	35.19
10:30	128	0.13	36.30	11:30	C	1.33	35.11
10:33	B	0.13	36.39	12:20PM	128	1.50	34.93
10:35	C	0.14	36.30	12:35	B	1.58	34.94
11:30	128	0.18	36.25	12:30	C	1.56	34.88
11:33	B	0.18	36.34	1:20	B	2.00	34.52
11:35	C	0.19	36.25	1:30	128	1.75	34.68
				1:35	B	2.16	34.36
September	24			2:30	128	1.83	34.60
				3:20	128	2.00	34.43
12:30AM	128	0.25	36.18	3:20	B	2.33	34.19
12:33	B	0.25	36.27	4:20	128	2.16	34.27
12:35	C	0.25	36.19	4:35	B	2.50	34.02
1:30	128	0.33	36.10	5:20	128	2.42	34.01
1:33	B	0.31	36.21	5:25	B	2.87	33.65
1:35	C	0.33	36.11	6:20	128	2.50	33.93
2:30	128	0.39	36.04	6:30	B	3.33	33.19
2:33	B	0.39	36.13	6:40	B	2.69	33.83

TIME E.S.T.	STA.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)			
6:45PM	128	2.67	33.76
7:40	128	2.81	33.62
7:45	B	2.85	33.67
8:40	128	3.00	33.43
8:45	D	3.00	33.52
9:40	128	3.20	33.23
9:45	D	3.16	33.36
10:40	128	3.42	33.01
10:40	D	1.79	32.97
10:45	B	3.37	33.15
11:40	D	2.00	32.76
11:45	B	3.58	32.94
September 25			
12:40AM	D	2.16	32.60
12:45	B	3.64	32.88
1:40	D	2.39	32.37
2:40	D	2.58	32.18
6:40	E	0.33	31.14
7:20	E	0.42	31.05
8:35	E	0.58	30.89
9:40	E	0.75	30.72
10:05	E	0.91	30.56
10:30	E	1.02	30.45
10:30	F	0.00	30.51
11:30	F	0.16	30.35
12:30PM	F	0.42	30.09
1:25	F	0.97	29.54
3:30	F	1.50	29.01
4:30	F	1.67	28.84
4:30	G	0.00	29.16
5:20	G	0.25	28.91
6:20	G	0.46	28.70
7:20	G	0.67	28.49
September 26			
7:20AM	H	1.48	25.49
10:30	H	1.97	25.00
11:00	H	2.04	24.93
September 26 (continued)			
11:30AM	H	2.16	24.81
12:00	H	2.29	24.68
12:30PM	H	2.37	24.60
1:00	H	2.46	24.51
1:30	H	2.58	24.39
2:00	I	1.95	24.31
2:30	I	2.16	24.25
3:00	I	2.25	24.14
3:30	I	2.37	24.02
4:00	I	2.50	23.89
4:30	I	2.58	23.81
5:00	I	2.71	23.68
6:00	I	2.95	23.44
7:00	I	3.12	23.27
8:00	I	3.37	23.02
9:00	I	3.60	22.79
10:00	I	3.79	22.60
11:00	I	4.00	22.39
September 27			
1:00AM	J	3.46	21.99
2:00	J	3.58	21.87
3:00	J	3.83	21.62
4:00	J	4.00	21.45
5:00	J	4.16	21.29
6:00	J	4.33	21.12
7:00	J	4.50	20.95
8:00	J	4.67	20.78
9:00	J	4.83	20.62
10:00	J	5.00	20.45
11:00	J	5.42	20.03
12:00 noon	K	0.20	20.07
1:00PM	K	0.33	19.94
2:00	K	0.58	19.69
3:00	K	0.75	19.52
3:25	L	2.75	19.50
3:30	K	0.85	19.42
September 29			
12:45PM	L	9.83	12.42

Gauge Heights at Windsor, Connecticut
Railroad Underpass, Palisado Avenue, Windsor
Point Number 134
Approximately 58.0 miles from Saybrook Light

OBSERVED BY:- Connecticut Ground Water Survey.

PERIOD:- 2:15PM, September 22 to 8:30PM, September 25, 1938.

FLOOD CREST ALTITUDE:- 36.83 feet m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Yellow keel mark on top edge of concrete retaining wall of railroad underpass on Palisado Avenue, on southwest corner directly above bronze plaque marking 1936 flood level.

REMARKS:-

The flood crest altitude of 36.83 feet may represent a wave or surge above actual crest.

Altitude of measuring point determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Windsor, Connecticut
Railroad Underpass, Palisade Avenue, Windsor
Point Number 134
September 22 to September 25, 1938

Zero of Measuring Point - 42.50 feet above M.S.L.

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
2:15PM	9.00	33.50
4:15	8.30	34.20
5:15	8.20	34.30
7:30	7.90	34.60
9:50	7.26	35.24
11:15	7.09	35.41
September 23		
1:00AM	6.84	35.66
4:00	6.47	36.03
6:15	6.19	36.31
10:10	5.92	36.58
12:00Noon	5.87	36.63
1:00PM	5.87	36.63
4:05	5.83	36.67
4:30	5.83	36.67
5:30	5.67	36.83
6:30	5.87	36.63
7:30	5.89	36.61
8:30	5.92	36.58
9:30	5.97	36.53
10:00	6.00	36.50
11:30	6.09	36.41
September 24		
12:30AM	6.16	36.34
1:30	6.22	36.28
2:30	6:33	36.17
3:30	6.42	36.08
4:30	6.52	35.98
5:30	6.64	35.86
6:30	6.77	35.73
7:30	6.87	35.63
8:30	7.00	35.50
9:30	7.14	35.36
September 24 (continued)		
10:30AM	7.35	35.15
11:30	7.54	34.96
12:30PM	7.64	34.86
1:30	7.83	34.67
2:30	8.00	34.50
3:30	8.12	34.38
4:30	8.33	34.17
5:30	8.50	34.00
6:30	8.75	33.75
7:30	8.85	33.65
8:30	9.08	33.42
9:30	9.25	33.25
10:30	9.42	33.08
11:30	9.64	32.86
September 25		
12:30AM	9.87	32.63
1:30	10.14	32.36
2:30	10.34	32.16
3:30	10.56	31.94
4:30	10.75	31.75
5:30	11.00	31.50
6:30	11.25	31.25
7:30	11.46	31.04
8:30	11.69	30.81
9:30	12.08	30.42
10:30	12.12	30.38
11:30	12.33	30.17
12:00Noon	12.42	30.08
12:30PM	12.54	29.96
1:30	12.83	29.67
2:30	13.06	29.44
3:30	13.25	29.25
4:30	13.46	29.04
5:30	13.77	28.73
6:30	Water at side walk.	

Curb is 0.71' above street.

8:30 Water off road at underpass.

Gauge Heights at Windsor, Connecticut
Farmington River Bridge, Palisado Avenue
Point Number 138
Approximately 58.0 miles from Saybrook Light

OBSERVED BY:- Theodore Feuhaus, 161 Palisado Ave., Windsor, and Connecticut Ground Water Survey.

PERIOD:- 1:00PM, September 22, 1938 to 4:00PM, September 27, 1938 with a reading, September 28 and September 29, 1938.

FLOOD CREST ALTITUDE:- 36.48 feet m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Readings were made at four separate points as the flood waters rose and retreated. The points are at the north end of the Palisado Avenue Bridge over the Farmington River.

138 — A six foot rule attached to a stick near the north end of the Farmington River Bridge on the west side of Palisado Avenue. Elevation of zero of gauge: 34.40 feet, m.s.l.

138-A — Blue keel mark on bridge beam at north end of bridge on east side. Elevation of measuring point: 34.65 feet, m.s.l.

138-B — Keel mark on bridge beam near north end of bridge, southwest of point 138A on east side of bridge. Elevation of measuring point: 34.34 feet, m.s.l.

138-C — Keel mark on bridge nearer center of bridge than other points, on east side of bridge. Elevation of measuring point: 33.25 feet, m.s.l.

REMARKS:-

Flood crest altitude slightly lower than that observed at the Palisado Avenue railroad underpass. The highest point may not have been observed as there was a lapse between readings from 6:00AM to 3:45PM on September 23, 1938.

Zero of gauge and elevations of measuring points referenced to mean sea level by Connecticut Ground Water Survey. Readings converted to mean sea level elevation by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Windsor, Connecticut
Farmington River Bridge, Palisade Avenue
Point Number 138

September 22 to September 29, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
	Station 138	
1:00PM	0.00	34.40
6:00	1.37a	35.77
September 23		
6:00AM	1.70a	36.10
3:45PM	2.08a	36.48
5:30	2.08a	36.48
6:30	2.04a	36.44
7:30	2.00a	36.40
8:30	1.95a	36.35
9:30	1.91a	36.31
10:30	1.85a	36.25
11:30	1.77a	36.17
September 24		
12:30AM	1.72a	36.12
1:30	1.64a	36.04
2:30	1.56a	35.96
3:30	1.46a	35.86
4:30	1.35a	35.75
5:30	1.25a	35.65
6:30	1.12a	35.52
7:30	0.97a	35.37
8:30	0.85a	35.25
9:30	0.70a	35.10
10:30	0.58a	34.98
11:30	0.42a	34.82
12:30PM	0.27a	34.67
1:30	0.10a	34.50
	Station 138-A	
2:30PM	0.06	34.59
3:30	0.22	34.43
4:30	0.42	34.23
5:30	0.62	34.03
6:30	0.79	33.86
7:30	1.02	33.63
8:30	1.18	33.47
9:30	1.37	33.28

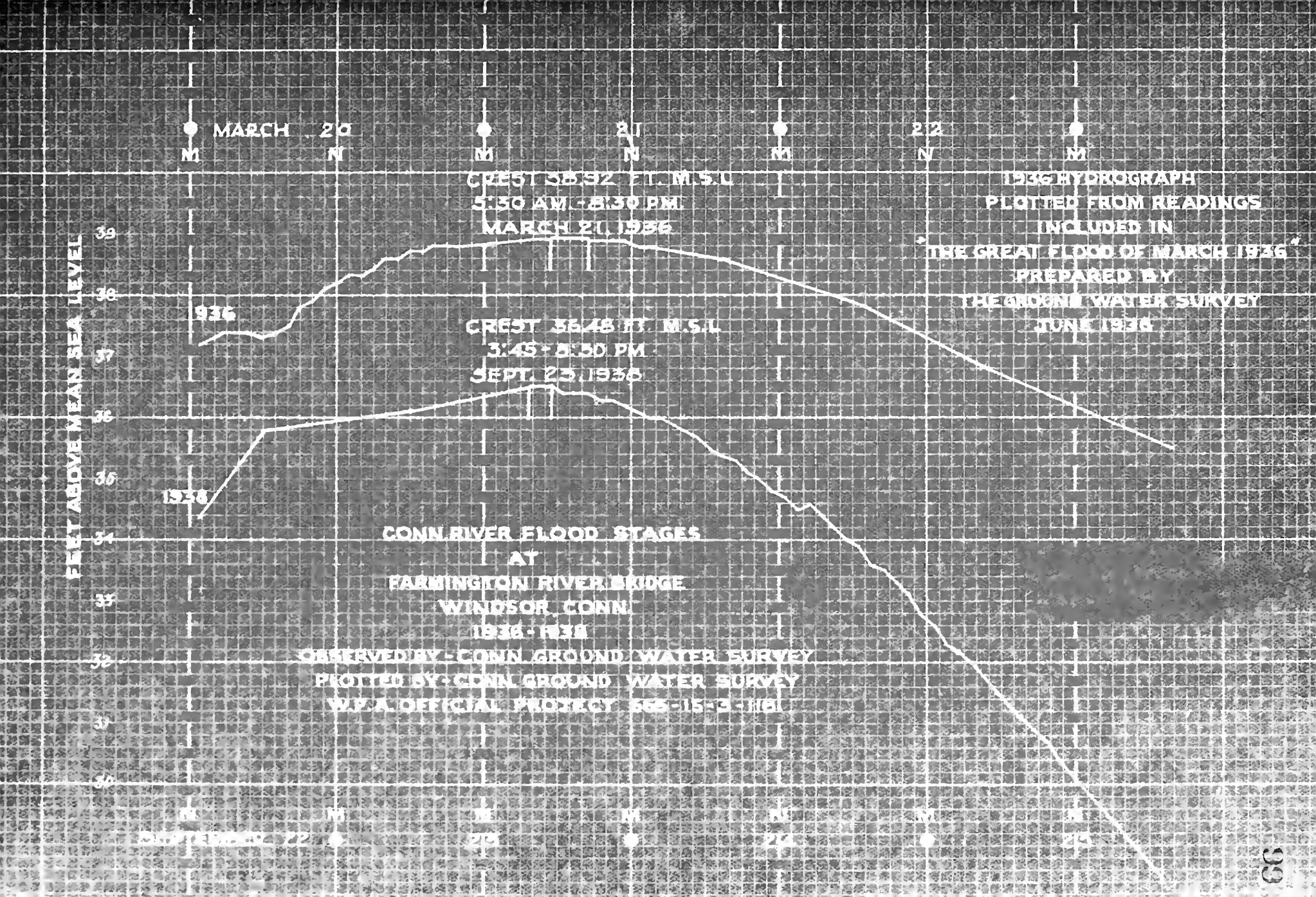
TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)		
	Station 138-A	
10:30PM	1.60	33.05
11:30	1.81	32.84
September 25		
12:30AM	2.04	32.61
1:30	2.33	32.32
2:30	2.50	32.15
3:30	2.66	31.99
4:30	2.87	31.78
5:30	3.12	31.53
	Station 138-B	
6:30AM	3.00	31.34
7:30	3.25	31.09
8:30	3.46	30.88
9:30	3.68	30.66
10:30	3.91	30.43
11:30	4.14	30.20
12:30PM	4.37	29.97
1:30	4.62	29.72
2:30	4.87	29.47
3:30	5.04	29.30
4:30	5.35	28.99
5:30	5.52	28.82
	Station 138-C	
5:30PM	4.46	28.89
6:30	4.67	28.58
7:30	4.93	28.32
8:30	5.12	28.13
9:30	5.39	27.86
10:30	5.60	27.65
11:30	5.85	27.40
September 26		
12:30AM	6.12	27.13
1:30	6.14	27.11
2:30	6.42	26.83
3:30	6.70	26.55

a - measurements above measuring point, all other measurements below measuring point.

Gauge Heights at Windsor, Connecticut (continued)

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 26 (continued)		
	Station 138-C	
4:30AM	7.02	26.23
5:30	7.25	26.00
6:30	7.52	25.73
7:30	7.66	25.59
7:50	7.77	25.48
9:30	8.10	25.15
10:00	8.16	25.09
10:30	8.16	25.09
11:00	8.16	25.09
11:30	8.25	25.00
12:00Noon	8.33	24.92
12:30PM	8.46	24.79
1:00	8.56	24.69
1:30	8.66	24.59
2:00	8.79	24.46
2:30	8.85	24.40
3:00	9.00	24.25
3:30	9.08	24.17
4:00	9.16	24.09
4:30	9.27	23.98
5:00	9.37	23.88
5:30	9.50	23.75
6:00	9.58	23.67
6:30	9.68	23.57
7:00	9.79	23.46
7:30	9.89	23.36
8:00	10:00	23.25
8:30	10.08	23.17
9:00	10.18	23.07
9:30	10.29	22.96
10:00	10.37	22.88
10:30	10.48	22.77
11:00	10.58	22.67
11:30	10.68	22.57
12:00Mid	10.79	22.46
September 27		
12:30AM	10.87	22.38

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 27 (continued)		
	Station 138-C	
1:00AM	10.97	22.28
1:30	11.06	22.19
2:00	11.12	22.13
2:30	11.25	22.00
3:00	11.37	21.88
3:30	11.46	21.79
4:00	11.56	21.69
4:30	11.68	21.57
5:00	11.75	21.50
5:30	11.85	21.40
6:00	11.87	21.38
6:30	11.89	21.36
7:00	11.97	21.28
7:30	12.08	21.17
8:00	12.16	21.09
8:30	12.25	21.00
9:00	12.35	20.90
9:30	12.42	20.83
10:00	12.50	20.75
10:30	12.54	20.71
11:00	12.64	20.61
11:30	12.72	20.53
12:00Noon	12.79	20.46
12:30PM	13.00	20.25
1:00	13.08	20.17
1:30	13.18	20.07
2:00	13.33	19.92
2:30	13.42	19.83
3:00	13.50	19.75
3:30	13.54	19.71
4:00	13.66	19.59
September 28		
6:00PM	17.50	15.75
September 29		
11:30PM	20.08	13.17


MARCH 20
21
22
M
N
CREST 38.92 FT. M.S.L.
5:30 AM - 8:30 PM
MARCH 21, 1936
1936 HYDROGRAPH
PLOTTED FROM READINGS
INCLUDED IN
"THE GREAT FLOOD OF MARCH 1936"
PREPARED BY
THE GROUND WATER SURVEY
JUNE 1936
1936
CREST 36.48 FT. M.S.L.
3:45 - 5:30 PM
SEPT. 23, 1936
1938
CONN. RIVER FLOOD STAGES
AT
FARMINGTON RIVER BRIDGE
WINDSOR, CONN.
1936 - 1938
OBSERVED BY - CONN. GROUND WATER SURVEY
PLOTTED BY - CONN. GROUND WATER SURVEY
W.P.A. OFFICIAL PROJECT 565-15-3-1161
FEET ABOVE MEAN SEA LEVEL
39
38
37
36
35
34
33
32
31
30
SEPTEMBER 22
23
24

Gauge Heights at Windsor Locks, Connecticut
Connecticut Light and Power Company Plant
Point Number 140
Approximately 63.3 miles from Saybrook Light

OBSERVED BY:- Connecticut Light and Power Company.

PERIOD:- 6:00PM, September 21 to 2:00PM, September 27, 1938.

FLOOD CREST ALTITUDE:- 38.17 feet, m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Station 140-1 Top of pump cover 25 feet north of office door at floor level in basement of power plant.
Elevation 30.06 feet, m.s.l.

Station 140-2 Brass bolt in concrete floor of basement power plant at door to office.
Elevation 30.09 feet, m.s.l.

REMARKS:-

Readings were taken downward from point 1 until 11:00PM, September 21, 1938. Measurements were taken from point 2 upward from 12:00 midnight September 21, 1938 until 4:00PM, September 25, 1938. At this time measurements were resumed downward from point 1. Measurements taken by employees of the Connecticut Light and Power Company.

Altitude of zero points determined by the Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Windsor Locks, Connecticut
Connecticut Light & Power Company Plant
Point Number 140

September 21 to September 27, 1938

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 21		
	Station 140-1	
6:00PM	2.58b	27.48
6:15	2.42b	27.64
6:45	2.25b	27.81
7:00	2.04b	28.02
7:30	1.83b	28.23
8:00	1.67b	28.39
8:30	1.42b	28.64
9:00	1.16b	28.90
9:30	1.00b	29.06
10:00	0.75b	29.31
10:30	0.50b	29.56
11:00	0.29b	29.77
	Station 140-2	
12:00Mid	0.25a	30.34
September 22		
12:30AM	0.54a	30.53
1:00	0.81a	30.90
1:30	1.12a	31.21
2:00	1.33a	31.42
2:30	1.67a	31.76
3:00	1.85a	31.94
3:30	2.12a	32.21
4:00	2.35a	32.44
4:30	2.58a	32.67
5:00	2.89a	32.98
5:30	3.08a	33.17
6:00	3.33a	33.42
6:30	3.50a	33.59
7:00	3.71a	33.80
8:00	4.08a	34.17
9:00	4.42a	34.51
10:00	4.66a	34.75
11:00	5.00a	35.09
12:00Noon	5.29a	35.38
1:00PM	5.46a	35.55
2:00	5.62a	35.71
3:00	5.95a	36.04
4:00	6.12a	36.21
5:00	6.16a	36.25
6:00	6.50a	36.59

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22 (continued)		
	Station 140-2	
7:00PM	6.66a	36.75
8:00	6.83a	36.92
9:00	6.95a	37.04
10:00	7.08a	37.17
11:00	6.95a	37.04
12:00Mid	7.42a	37.51
September 23		
1:00AM	7.50a	37.59
2:00	7.58a	37.67
3:00	7.70a	37.79
4:00	7.79a	37.88
5:00	7.87a	37.96
6:00	7.95a	38.04
7:00	8.04a	38.13
8:00	8.04a	38.13
9:00	8.04a	38.13
10:00	8.04a	38.13
11:00	8.08a	38.17
12:00Noon	8.08a	38.17
1:00PM	8.08a	38.17
2:00	8.08a	38.17
3:00	8.08a	38.17
4:00	8.04a	38.13
5:00	8.08a	38.17
5:30	8.00a	38.09
6:00	8.00a	38.09
6:30	8.00a	38.09
7:00	8.00a	38.09
8:00	7.95a	38.04
9:00	7.91a	38.00
10:00	7.83a	37.92
11:00	7.70a	37.79
12:00Mid	7.62a	37.71
September 24		
1:00AM	7.54a	37.63
2:00	7.42a	37.51
3:00	7.33a	37.42
4:00	7.25a	37.34
5:00	7.12a	37.21
6:00	7.00a	37.09

a - measurements above measuring point.
b - measurements below measuring point.

Gauge Heights for Windsor Locks, Connecticut (continued)

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 24 (continued)		
Station 140-2		
7:00AM	6.83a	36.92
8:00	6.66a	36.75
9:00	6.50a	36.59
10:00	6.42a	36.51
11:00	6.25a	36.34
12:00Noon	6.00a	36.09
1:00PM	5.91a	36.00
2:00	5.79a	35.88
3:00	5.50a	35.59
4:00	5.33a	35.42
5:00	5.16a	35.25
6:00	4.91a	35.00
7:00	4.75a	34.84
8:00	4.58a	34.67
9:00	4.33a	34.42
10:00	4.12a	34.21
11:00	3.87a	33.96
12:00Mid	3.66a	33.75
September 25		
1:00AM	3.37a	33.46
2:00	3.08a	33.17
3:00	2.87a	32.96
4:00	2.70a	32.79
5:00	2.50a	32.59
6:00	2.29a	32.38
7:00	2.08a	32.17
8:00	1.83a	31.92
9:00	1.83a	31.92
10:00	1.33a	31.42
11:00	1.12a	31.21
12:00Noon	0.91a	31.00
1:00PM	0.66a	30.75
2:00	0.37a	30.46
3:00	0.12a	30.21
4:00	0.00	30.09
Station 140-1		
5:00PM	0.33b	29.73
6:00	0.66b	29.40
7:00	0.87b	29.19
8:00	1.16b	28.90
9:00	1.46b	28.60
September 25 (continued)		
Station 140-1		
10:00PM	1.66b	28.40
11:00	1.79b	28.27
12:00Mid	1.91b	28.15
September 26		
1:00AM	2.08b	27.98
2:00	2.33b	27.73
3:00	2.46b	27.60
4:00	2.66b	27.40
5:00	2.87b	27.19
6:00	3.08b	26.98
7:00	3.62b	26.44
8:00	3.83b	26.23
9:00	4.00b	26.06
10:00	4.20b	25.86
11:00	4.42b	25.64
12:00Noon	4.66b	25.40
1:00PM	4.87b	25.21
2:00	5.08b	24.98
3:00	5.25b	24.81
4:00	5.50b	24.56
5:00	5.66b	24.40
8:00	6.33b	23.73
9:00	6.58b	23.48
10:00	6.75b	23.31
11:00	6.83b	23.23
12:00	6.91b	23.15
September 27		
1:00AM	7.00b	23.06
2:00	7.08b	22.98
3:00	7.29b	22.77
4:00	7.50b	22.56
5:00	7.75b	22.31
6:00	8.00b	22.06
7:00	8.25b	21.81
8:00	8.42b	21.64
9:00	8.58b	21.48
10:00	8.75b	21.31
11:00	9.00b	21.06
12:00Noon	9.16b	20.90
1:00PM	9.33b	20.73
2:00	9.50b	20.56

a - measurements above measuring point.
b - measurements below measuring point.

Gauge Heights at Windsor Locks, Connecticut
The Montgomery Company
Point Number 150
Approximately 63.7 miles from Saybrook Light

OBSERVED BY:- Employees of the Montgomery Company.

PERIOD:- 3:00PM, September 22 to 3:00PM, September 25, 1938.

FLOOD CREST ALTITUDE:- 38.40 feet, m.s.l.

DATUM:- United States Coast and Geodetic Survey, mean sea level.

LOCATION OF GAUGE:-

Top of 9th tread from bottom of stairway of main building leading to basement of building.

ALTITUDE OF ZERO OF GAUGE:- 35.73 feet, m.s.l.

REMARKS:-

Zero of gauge referenced to mean sea level by Connecticut Ground Water Survey. Readings converted to mean sea level elevations by Connecticut Ground Water Survey.

Zero of gauge was below water from 3:00PM, September 22 to 1:00PM, September 24, 1938.

Time is Eastern Standard Time.

Gauge Heights at Windsor Locks, Connecticut
The Montgomery Company
(Main building)
Point Number 150
September 22 to September 25, 1938

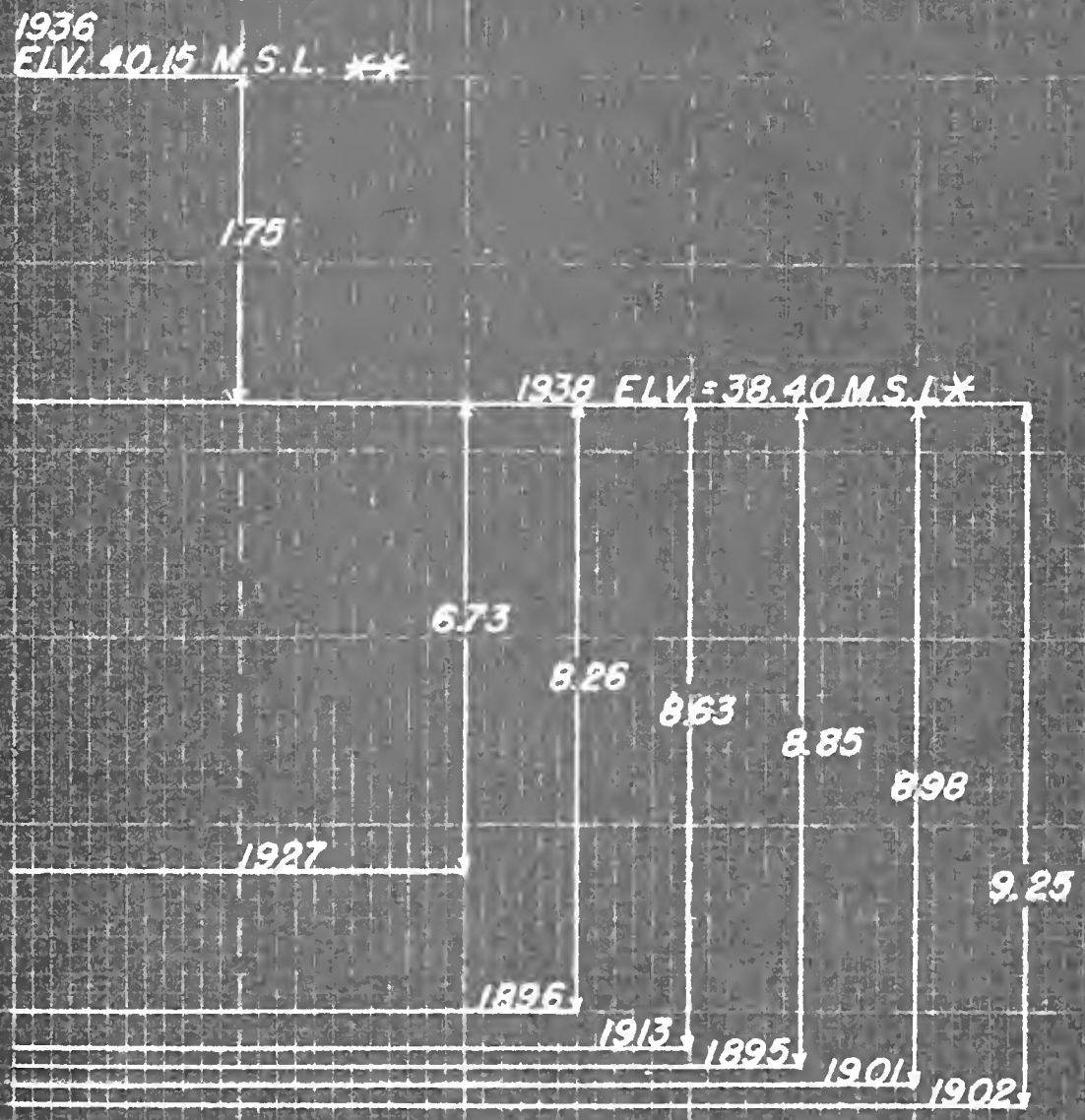
Zero of gauge - 35.73 feet above M.S.L.

TIME E.S.T.	STAGE HEIGHT	ELEVATION M.S.L.
September 22		
3:00PM	0.50a	36.23
4:00	0.67a	36.40
5:00	0.91a	36.64
6:00	1.04a	36.77
7:00	1.16a	36.89
8:00	1.35a	37.08
9:00	1.50a	37.23
10:00	1.64a	37.37
11:00	1.77a	37.50
12:00Mid	1.91a	37.64
September 23		
1:00AM	2.04a	37.77
2:00	2.16a	37.89
3:00	2.25a	37.98
4:00	2.33a	38.06
5:00	2.42a	38.15
6:00	2.46a	38.19
7:00	2.50a	38.23
8:00	2.54a	38.27
9:00	2.59a	38.32
10:00	2.64a	38.27
11:00	2.67a	38.40
12:00Noon	2.67a	38.40
1:00PM	2.67a	38.40
2:00	2.62a	38.35
3:00	2.62a	38.35
4:00	2.58a	38.31
5:00	2.56a	38.29
6:00	2.53a	38.26
7:00	2.42a	38.15
8:00	2.42a	38.15
9:00	2.33a	38.06
10:00	2.27a	38.00
11:00	2.18a	37.91
12:00Mid	2.12a	37.85
September 24		
1:00AM	1.67a	37.40
September 24 (continued)		
2:00AM	1.56a	37.29
3:00	1.45a	37.18
4:00	1.33a	37.06
5:00	1.18a	36.91
6:00	1.12a	36.85
7:00	1.00a	36.73
8:00	1.00a	36.73
9:00	1.00a	36.73
10:00	0.83a	36.56
11:00	0.67a	36.40
12:00Noon	0.62a	36.35
1:00PM	0.33a	36.06
2:00	0.16a	35.89
3:00	0.08b	35.65
4:00	0.25b	35.48
5:00	0.42b	35.31
6:00	0.58b	35.15
7:00	0.79b	34.94
8:00	1.00b	34.73
9:00	1.25b	34.48
10:00	1.46b	34.27
11:00	1.71b	34.02
12:00Mid	1.87b	33.86
September 25		
1:00AM	2.12b	33.61
2:00	2.33b	33.40
3:00	2.58b	33.15
4:00	2.83b	32.90
5:00	3.04b	32.69
6:00	3.33b	32.40
7:00	3.50b	32.23
8:00	3.67b	32.06
9:00	3.91b	31.82
10:00	4.12b	31.61
11:00	4.37b	31.36
12:00Noon	4.58b	31.15
1:00PM	5.00b	30.73
2:00	5.20b	30.53
3:00	5.75b	29.98

a - water above zero of gauge.
b - water below zero of gauge.

V. COMPARATIVE FLOOD CRESTS
CONNECTICUT RIVER
1936 and 1938

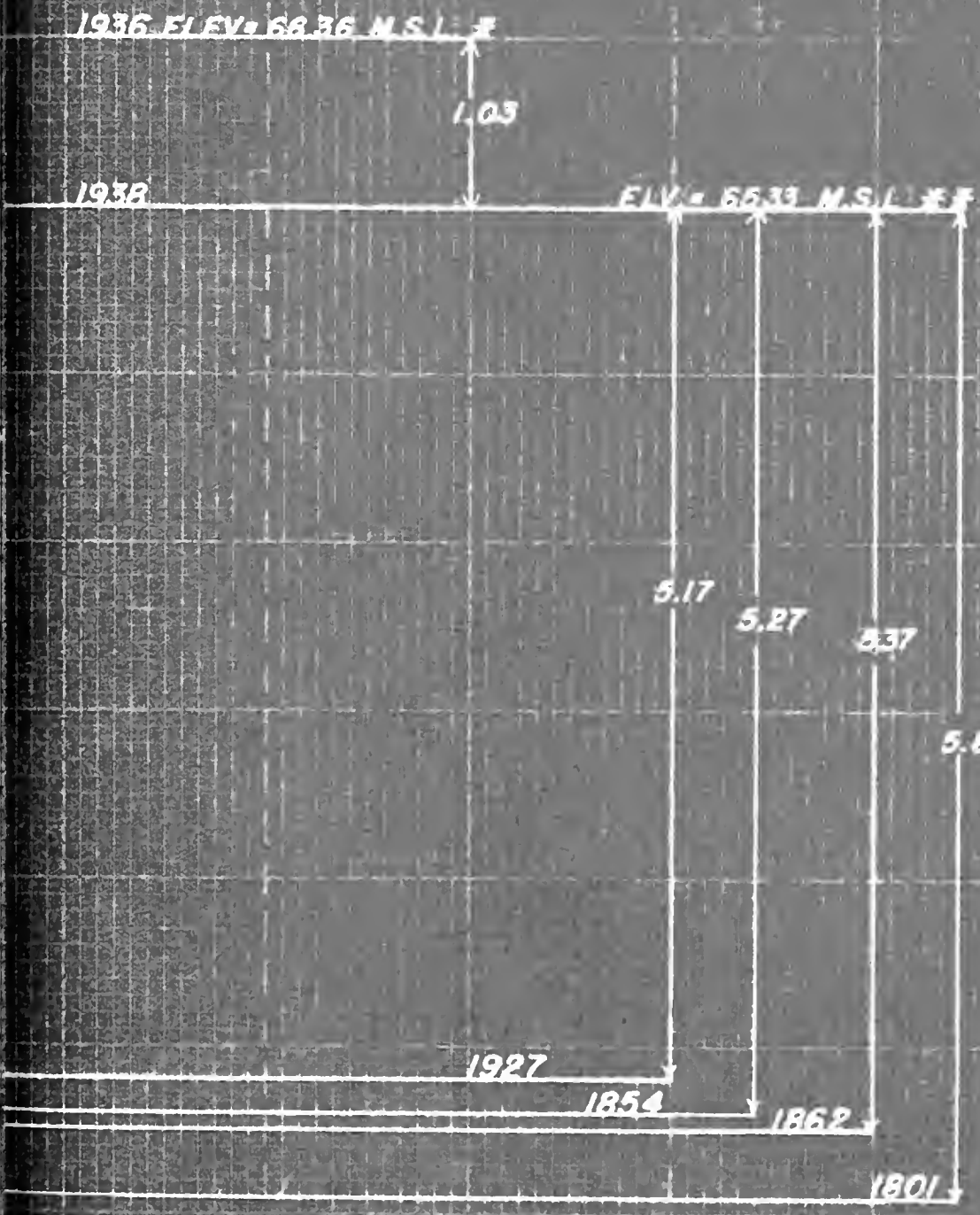
GRAPHIC COMPARISON OF VARIOUS FLOOD CRESTS – WINDSOR LOCKS, CONN.



* FLOOD CREST ELEVATION BY MONTGOMERY CO.
DATA OBTAINED BY CONN. GROUND WATER SURVEY & MONTGOMERY CO.

** POINT ESTABLISHED BY MONTGOMERY CO. AND REFERENCED BY CONN. GROUND WATER SURVEY

GRAPHIC COMPARISON OF VARIOUS FLOOD CRESTS — SPRINGFIELD, MASS.



* U.S. GEOLOGICAL SURVEY PAPER 798

** U.S. GEOLOGICAL SURVEY DATA

COMPARATIVE FLOOD CRESTS
CONNECTICUT RIVER
1936 - 1938 *
in
Feet above Mean Sea Level
U.S. Coast & Geodetic Datum

Locations	1936	1938	Difference
Thompsonville			
Enfield Dam	55.08	52.88	2.20[d]
Windsor Locks			
Connecticut Light & Power Co.	39.74	38.18	1.57[b]
Montgomery Company	40.15	38.40	1.75[c]
Windsor			
Farmington River Highway Bridge	38.92	36.48	2.44
Hartford			
Valley Railroad Depot	36.73	34.65	2.03[a]
New England Transportation Co.	37.28	35.21	2.07[a]
Bulkeley Memorial Bridge U. S. Weather Bureau	37.06	34.88	2.18
Wethersfield			
Connecticut State Prison	35.66	33.10	2.56[a]
#17 Broad Street	35.30	32.48	2.82[a]
Rocky Hill			
Connecticut Foundry Company	34.8	31.8	3.0
Meadow Street (Grey House)	34.6	31.9	2.7
Cromwell	31.7	28.5	3.2[e]

* - For a description of high-water marks during the flood of 1936 see "The Great Flood of March, 1936": Connecticut Ground Water Survey.
a - Hartford City Engineers Data
b - Connecticut Light & Power Company readings
c - Montgomery Company readings
d - U. S. Geological Survey gauge
e - 1936 point on Route #72; 1938 point at Cromwell Center

Comparative Flood Crests - Connecticut River - 1936 - 1938 - (Continued)

Locations	1936	1938	Difference
Middletown			
Hartford Avenue	30.3	27.4	2.9
Sewage Disposal Plant	30.4	27.3	3.1
Higganum			
Railroad Station	23.5	21.3	2.2
Haddam			
East Haddam Bridge west shore	18.1	16.6	1.5
East Haddam Bridge east shore	17.9	16.6	1.3
Chester	14.5	13.2	1.3[f]
Deep River			
Railroad	14.2	12.5	1.7[g]
Essex			
Essex Paint & Marine Company	10.1	8.82	1.3

e - 1936 point on Route #72; 1938 point at Cromwell Center
f - 1936 point on Ferry Road; 1938 point on Route #9 & 148
g - Both elevations established in 1938. The 1936 mark from information furnished by the Smith Lace Company

NOTE: All 1936 flood elevations taken from a report, "The Great Flood of March 1936 in Connecticut" etc., prepared by The Connecticut Ground Water Survey.

VI. HIGH-WATER MARKS, CONNECTICUT RIVER FLOOD OF SEPTEMBER, 1938

High Water Marks
Connecticut River (West Shore)
Flood of September 1938

Number	Location	Miles from Saybrook Jetty	Elevation m.s.l.	Set by (a)
2	Old Saybrook	1.5	3.601	C.G.W.S.
4	Old Saybrook	4.3	5.79	C.G.W.S.
6	Essex	7.1	8.824	C.G.W.S.
8	Essex	7.1	8.839	C.G.W.S.
10	Saybrook (Deep River)	11.4	12.677	C.G.W.S.
12	Saybrook (Deep River)	11.85	12.454	C.G.W.S.
14	Saybrook (Deep River)	11.9	12.529	C.G.W.S.
16	Chester	Trib.	13.186	C.G.W.S.
18	Chester	Trib.	13.245	C.G.W.S.
20	Chester	13.4	13.284	C.G.W.S.
22	Chester	13.6	12.969	C.G.W.S.
24	Haddam	16.65	16.230	C.G.W.S.
26	Haddam	16.65	16.595	C.G.W.S.
28	Haddam	20.7	19.483	C.G.W.S.
30	Haddam	20.75	19.175	C.G.W.S.
32	Haddam (Higganum)	22.55	20.985	C.G.W.S.
34	Haddam (Higganum)	22.6	21.088	C.G.W.S.
36	Haddam (Higganum)	22.8	21.303	C.G.W.S.
38	Haddam (Higganum)	22.8	21.275	C.G.W.S.
40	Haddam (Higganum)	22.8	21.273	C.G.W.S.

(a) - Connecticut Ground Water Survey.

Number	Location	Miles from Saybrook Jetty	Elevation m.s.l.	Set by
42	Middletown (Maromas)	26.2	23.247	C.G.W.S. (a)
44	Middletown (Laurel)	28.25	24.420	C.G.W.S.
46	Middletown (Laurel)	28.25	24.82	Copeland
48A	Middletown (Narrows)	29.0	25.34	Copeland
50	Middletown (Narrows)	29.25	25.51	Copeland
52	Middletown (Narrows)	29.52	25.75 (b)	C.G.W.S.
52A	Middletown (Narrows)	29.52	25.671	C.G.W.S.
54	Middletown (Narrows) above	29.57	25.636	C.G.W.S.
56	Middletown (Narrows) above	30.0	26.366	C.G.W.S.
58	Middletown	30.45	26.214 (b)	C.G.W.S.
60	Middletown	30.5	26.174	C.G.W.S.
62	Middletown	31.4	27.33	M.P.W. (c)
64	Middletown	31.94	27.42 (b)	C.G.W.S.
66	Middletown	32.3	27.246	C.G.W.S.
68	Cromwell	33.88	28.539	C.G.W.S.
70	Cromwell	33.88	28.533	C.G.W.S.
72	Cromwell	34.1	29.070	C.G.W.S.
74	Cromwell	36.7	29.721	C.G.W.S.
76	Rocky Hill	39.0	30.574	C.G.W.S.
78	Rocky Hill	39.0	30.58	H.C.E. (d)
80	Rocky Hill	40.15	31.45	H.C.E.
82	Rocky Hill	40.22	31.790	C.G.W.S.

(a) - Connecticut Ground Water Survey
(b) - gauge height
(c) - Middletown Department of Public Works
(d) - Hartford City Engineering Department

Number	Location	Miles from Saybrook Jetty	Elevation m.s.l.	Set by
84	Rocky Hill	40.22	31.796	C.G.W.S. (a)
86	Rocky Hill	40.3	31.976	C.G.W.S.
88	Rocky Hill	40.3	31.909 (b)	C.G.W.S.
90	Rocky Hill	42.6	32.59	C.G.W.S.
92	Wethersfield	43.1	32.411	C.G.W.S.
94	Wethersfield	43.7	32.518	C.G.W.S.
96	Wethersfield	44.8	32.442	C.G.W.S.
98	Wethersfield	46.58	32.720	C.G.W.S.
100	Wethersfield	46.58	32.48	H.C.E. (d)
102	Wethersfield	46.58	32.786	C.G.W.S.
104	Wethersfield	47.65	33.10	H.C.E. (d)
106	Hartford	50.7	34.53	H.C.E.
108	Hartford	51.4	34.65	H.C.E.
110	Hartford	51.7	35.21	H.C.E.
112	Hartford	51.85	35.20	H.C.E.
114	Hartford	52.10	35.43	H.C.E.
116	Hartford	52.3	35.56	H.C.E.
118	Hartford	52.4	35.60	H.C.E.
120	Hartford	52.45	35.72	H.C.E.
122	Hartford	53.0	35.68	H.C.E.

(a) - Connecticut Ground Water Survey
(b) - gauge height
(d) - Hartford City Engineering Department

Number	Location	Miles from Saybrook Jetty	Elevation m.s.l.	Set by
124	Windsor (Wilson	54.94	36.15 (b)	C.G.W.S. (a)
126	Windsor (Wilson)	54.94	35.85 (b)	H.C.E. (d)
128	Windsor (Wilson)	(55.5 (55.5	(36.52 (36.43	C.G.W.S.
130	Windsor	57.3	36.63	C.G.W.S.
132	Windsor	57.3	36.77 (b)	H.C.E. (d)
134	Windsor	57.9	36.83	C.G.W.S.
136	Windsor	57.9	36.86 (b)	H.C.E. (d)
138	Windsor	58.05	36.48 (b)	C.G.W.S.
140	Windsor Locks	63.27	38.14	C.L.P. (e)
142	Windsor Locks	63.55	38.76	H.C.E. (d)
144	Windsor Locks	63.7	38.75	H.C.E.
146	Windsor Locks	63.71	38.33	M.C. (f)
148	Windsor Locks	63.71	38.68 (b)	M.C.
150	Windsor Locks	63.71	38.40	M.C.
152	Windsor Locks	63.74	38.791	H.C. (g)

(a) - Connecticut Ground Water Survey
(b) - Gauge height
(d) - Hartford City Engineering Department
(e) - Connecticut Light & Power Company
(f) - Montgomery Company
(g) - Horton Company

High Water Marks
Connecticut River (East Shore)
Flood of September 1938

Number	Location	Miles from Saybrook Jetty	Elevation m.s.l.	Set by (a)
3	Lyme (Ely's Landing)	7.9	8.858	C.G.W.S.
5	Lyme (Brockways)	9.0	10.752	C.G.W.S.
7	Lyme (Hamburg Cove)	Trib.	9.867	C.G.W.S.
9	Lyme (Hamburg Cove)	Trib.	10.113	C.G.W.S.
11	Lyme (Hadlyme)	13.6	13.391*	C.G.W.S.
13	Lyme (Hadlyme)	13.6	13.603*	C.G.W.S.
15	Lyme (Hadlyme)	13.6	13.494*	C.G.W.S.
17	Lyme (Hadlyme)	13.6	13.593*	C.G.W.S.
19	Lyme (Hadlyme)	13.5	13.246*	C.G.W.S.
21	East Haddam	16.61	16.165	C.G.W.S.
23	East Haddam	16.61	15.857	C.G.W.S.
25	East Haddam	16.65	16.511	C.G.W.S.
27	East Haddam	16.65	16.560	C.G.W.S.
29	East Haddam	17.4	17.695	C.G.W.S.
31	Haddam (Rock Landing)	21.7	20.293	C.G.W.S.
33	Haddam (Rock Landing)	21.7	19.601	C.G.W.S.
35	E.Hampton (Mid.Haddam)	26.4	22.755	C.G.W.S.
37	East Hampton (Cobalt)	27.1	24.075	C.G.W.S.
39	Portland	28.4	24.737	C.G.W.S.
41	Portland	29.95	26.623	C.G.W.S.

(a) - Connecticut Ground Water Survey
* - Elevations established from tidal B.M. serial #81 which was based on observation during June 28-30, 1917 at which time the river was very high - See "Tidal B.M's - State of Conn." Page 16.

Number	Location	Miles from Saybrook Jetty	Elevation m.s.l.	Set By
43	Portland	29.95	26.523	C.G.W.S(a)
45	Portland	32.5	27.109	C.G.W.S.
47	Portland (Gildersleeve)	35.2	30.149	C.G.W.S.
49	Portland (Gildersleeve)	36.5	30.599	C.G.W.S.
51	Glastonbury	39.6	31.224	C.G.W.S.
53	Glastonbury	40.4	31.797	C.G.W.S.
55	Glastonbury	40.4	31.697	C.G.W.S.
57	Glastonbury	40.8	32.575	C.G.W.S.
59	Glastonbury	45.2	32.564	C.G.W.S.
61	Glastonbury	45.5	33.013	C.G.W.S.
63	Glastonbury	45.5	33.051	C.G.W.S.
65	Glastonbury	45.5	33.024	C.G.W.S.
67	Glastonbury	45.6	33.062	C.G.W.S.
67A	Glastonbury	45.6	32.967	C.G.W.S.
69	Glastonbury	46.4	33.066	C.G.W.S.
71	East Hartford	48.0	33.054	C.G.W.S.
73	East Hartford	49.8	33.750	C.G.W.S.
75	East Hartford	49.8	33.606	C.G.W.S.
77	East Hartford	50.5	34.114 (b)	C.G.W.S. (c)
79	East Hartford	50.8	34.27	E.H.-WPA
81	East Hartford	51.5	34.53 (b)	E.H.-WPA
83	East Hartford	54.0	35.87	E.H.-WPA

(a) - Connecticut Ground Water Survey
(b) - gauge station
(c) - East Hartford WPA

Number	Location	Miles from Saybrook Jetty	Elevation m.s.l.	Set by
85	South Windsor	55.8	36.269	C.G.W.S. (a)
87	South Windsor	57.8	37.082	C.G.W.S.
89	East Windsor	63.4	38.204	WPA - K (d)
91	East Windsor	63.5	38.870	WPA - K
93	East Windsor	63.7	38.732	WPA - K
95	East Windsor	63.8	38.639	C.G.W.S.
97	East Windsor	63.85	38.648	WPA - K
99	Enfield	64.84	40.115	WPA - K
101	Enfield (Thompsonville)	68.9	55.983	B.S. Co. (e)

(a) - Connecticut Ground Water Survey
(d) - WPA Kehler
(e) - Bigelow-Sanford Carpet Co.

VII. HURRICANE WAVE-MARKS, CONNECTICUT RIVER

Hurricane Wave Marks
Connecticut River
East Shore

Number	Location	Miles from Saybrook Jetty	Elevation m.s.l.	Set by (a)
T 1	Old Lyme (Blackhall)	0.5 ±	9.175	C.G.W.S.
T 3	Old Lyme (Blackhall)	0.5 ±	9.094	C.G.W.S.
T 5	Old Lyme (Quarry Point)	5.8	9.688	C.G.W.S.
T 7	Lyme (Brockway Landing)	9.0	8.790	C.G.W.S.
T 9	Lyme (Hamburg Cove)	Trib.	10.[illegible]75	C.G.W.S.
T 13	Lyme (Hadlyme)	13.6	11.53 *	C.G.W.S.

West Shore

T 2	Old Saybrook	0.95	9.418	C.G.W.S.
T 4	Old Saybrook	4.3	9.145	C.G.W.S.
T 6	Essex	7.1	9.961	C.G.W.S.
T 8	Saybrook (Deep River)	11.4	10.6 ±	C.G.W.S.
T 10	Chester	Trib.	10.456	C.G.W.S.
T 12	Chester	Trib.	10.551	C.G.W.S.

(a) - Connecticut Ground Water Survey
* - Elevations established from tidal B.M. serial #81 which was based on observation during June 28-30, 1917 at which time the river was very high - See "Tidal B.M.'s - State of Conn." Page 16.

VIII. HIGH-WATER MARKS, TRIBUTARY STREAMS

CONNECTICUT RIVER

LITTLE RIVER
COCHINCHAUG RIVER
SALMON RIVER

High Water Marks
Tributary Streams (Connecticut River)
Flood of September 1938

Number	Location	Miles from Connecticut River	Elevation m.s.l.	Set by
		LITTLE RIVER		
L.R. 1	Newfield	1.7	28.217	C.G.W.S. (a)
L.R. 2	Newfield	1.7	28.279	C.G.W.S.
L.R. 3	Newfield	1.7	28.104	C.G.W.S.
L.R. 4	Newfield	1.7	28.25[illegible]	C.G.W.S.
L.R. 5	Cromwell	3.4	28.231	C.G.W.S.
L.R. 6	East Berlin	4.8	29.074	C.G.W.S.
L.R. 7	East Berlin	5.8	28.275	C.G.W.S.
		COCHINCHLUG RIVER (Middletown)		
C 1	Arawana Bridge	1.6	28.330	C.G.W.S.
C 2	Washington Street	2.4	28.552	C.G.W.S.
C 3	" " Underpass	1.9	27.886	C.G.W.S.
		SALMON RIVER		
S.R. 1	Leesville	3.7	18.875	C.G.W.S.
S.R. 2	Leesville	3.7	18.536	C.G.W.S.

(a) - Connecticut Ground Water Survey

IX. DESCRIPTION, GRADING, AND ELEVATION OF HIGH-WATER MARKS, CONNECTICUT RIVER

OLD SAYBROOK No. 2 Elev. 3.601 feet m.s.l.
Profile Point

Saybrook Point Dock Road

The High Water Mark is 2.1 feet above the top of the southeast corner of a concrete foundation to the east of a restaurant building with a mansard roof. Flood crest point based on measurement.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G., U 16: Elevation 29.508 feet m.s.l.

OLD SAYBROOK No. 4 Elev. 5.79 feet m.s.l.
Profile Point

Perssons Boat Works

The High Water Mark is the top of a small brass angle set on the scum line at the northeast corner of the boat shed at Perssons Boat Works.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; lower point of a galvanized iron triangle, marking water gauge zero on the boat dock at Perssons Boat Works: Elevation 6.312 feet m.s.l.

ESSEX No. 6 Elev. 8.824 feet m.s.l.

Novelty Lane

The High Water Mark is the lower sharp point of a galvanized iron triangle set on the scum line on the north face of the east end of the west garage at the end of Novelty Lane, east of the Standard Oil Company plant, southwest of the Essex Paint and Marine Company and west of the Essex Yacht Club.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M used; U.S.E. 23 A tidal: Elevation 5.310 feet m.t.l.

ESSEX No. 8 Elev. 8.839 feet m.s.l.
Profile Point

Novelty Lane

The High Water Mark is the top of a small brass angle set on the scum line set at the west edge of the most westerly window on the south side of the Essex Paint and Marine Company building at the end of Novelty Lane.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.E. 23 A tidal: Elevation 5.310 feet m.t.l.

SAYBROOK No. 10 Elev. 12.677 feet m.s.l.
Profile Point

Essex Street, Deep River

The High Water Mark is the top of a small brass angle set on the scum line at the northwest corner of a shed, east of Pratt Cove creek on the south side of Essex Street.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. Q 16: Elevation 17.241 feet m.s.l.

SAYBROOK No. 12 Elev. 12.454 feet m.s.l.
Profile Point

Deep River; at Smith Lace Company opposite Deep River railroad station.

The High Water Mark is the top of a small brass angle set at the scum line on a white fence post about 10 feet south of the southeast corner of the brick building northeast the railroad.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. Q 16: Elevation 17.241 feet m.s.l.

SAYBROOK No. 14 Elev. 12.529 feet m.s.l.

Deep River; at freight station

The High Water Mark is the top of a small brass angle set at the scum line on a supporting post of the platform near the northeast corner, east face, of the Deep River freight station.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. Q 16: Elevation 17.241 feet m.s.l.

CHESTER No. 16 Elev. 13.186 feet m.s.l.

Chester Center; at Old Stone Tavern opposite Post Office.

The High Water Mark is 2.95 feet below a yellow keel mark on the southwest corner of the cement porch floor.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; Top of bottom porch step at front entrance of tavern, C.G.W.S. Elevation 13.666 feet m.s.l. Run from U.S.C.&G. B.M. P 16: Elevation 21.775 feet m.s.l.

CHESTER No. 18 Elev. 13.245 feet m.s.l.

Chester Center; at Esso Gas Station opposite Old Stone Tavern

The High Water Mark is the top of a small brass angle set at the scum line on the east side of northerly front entrance door frame.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; Top of bottom porch step at front entrance of tavern. C.G.W.S. Elevation 13.666 feet m.s.l. Run from U.S.C.&G. B.M. P 16: Elevation 21.775 feet m.s.l.

CHESTER No. 20 Elev. 13.284 feet m.s.l.
Profile Point

Gulf Gas Station; Ferry Road and Conn. Route 9

The High Water Mark is the top of a small brass angle set at the scum line on the southwest corner of south face of Gulf Gas station building.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. P 16: Elevation 21.775 feet m.s.l.

CHESTER No. 22 Elev. 12.969 feet m.s.l.

Ferry Road; east of New York, New Haven and Hartford Railroad Valley Division.

The High Water Mark is the top of a small brass angle set at the scum line on the first telegraph pole on the south side of Ferry Road where the wires cross the road.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; U.S.C.&G. P 16: Elevation 21.775 feet m.s.l.

HADDAM No. 24 Elev. 16.230 feet m.s.l.

Tylerville; on west side of East Haddam bridge.

The High Water Mark is a staging nail set on the scum line in the base of C.L.&P. pole 5 on the south side of the highway approach to East Haddam bridge. The flood crest point is also marked by a staging nail at the same elevation in a square post beside C.L.&P. pole 5.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. N 16: Elevation 27.953 feet m.s.l.

HADDAM No. 26 Elev. 16.595 feet m.s.l.
Profile Point
Tylerville; at west side of East Haddam bridge.

The High Water Mark is the top of a small brass plate set at the scum line on a poplar stake driven in north side of the approach fill to East Haddam bridge, down the slope at the ninth highway fence post.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. N 16: Elevation 27.953 feet m.s.l.

HADDAM No. 28 Elev. 19.483 feet m.s.l.
Profile Point
W.U.T.pole 1621; 1.9 miles south of Higganum railroad station, about 35 feet east of center line of Conn. Route 9.

The High Water Mark is the top of a small brass angle set at a clear cut water line on W.U.T. pole 1621, 1.075 feet below Connecticut Ground Water Survey 1936 Flood Mark 20 D on the same pole.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; 1936 Flood Mark: Elevation 20.558 feet m.s.l. Run from U.S.C.&G. B.M. L 16: Elevation 16.368 feet m.s.l.

HADDAM No. 30 Elev. 19.175 feet m.s.l.
Profile Point
W.U.T.Co. pole L 10: on the west side of New York, New Haven and Hartford Railroad Valley Division tracks:

The High Water Mark is the top edge of a small brass plate set at a faint water line on the west face of W.U.T.Co. pole L 10. This is next pole north of W.U.T.Co. pole 1621.

Established and referenced by Connecticut Ground Water Survey. Class C. Reference B.M. used. C.G.W.S. 1936 Flood Mark on W.U.T.Co. pole 1621: Elevation 20.558 feet m.s.l. Run from U.S.C.&G. B.M. L 16: Elevation 16.368 feet m.s.l.

HADDAM No. 32 Elev. 20.985 feet m.s.l.
Profile Point
Higganum Landing

The High Water Mark is the top edge of a small brass plate set at the scum line on the second veranda post from south end of two and one half story house with two story veranda fronting river. The mark is 2.225 feet below a plaque marking crest of 1936 flood.

HADDAM No. 32 (cont'd)

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. K 16: Elevation 26.047 feet m.s.l.

HADDAM No. 34 Elev. 21.088 feet m.s.l.
Profile Point

Higganum Landing; Grout property.

The High Water Mark is the flat edge of a horizontal chisel mark cut at the scum line on a rock ledge 6 to 7 feet northwest of northwest corner of house on the river front immediately north of the entrance road to Higganum Landing at the point where this road turns south along river front.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. K 16: Elevation 26.047 feet m.s.l.

HADDAM No. 36 Elev. 21.303 feet m.s.l.
Profile Point

Higganum railroad station.

The High Water Mark is the top of a small brass angle set at the scum line on the northeast corner, east face, of third post south of north end of freight loading platform, on the east side of the platform about 6 inches above ground level at Higganum railroad station.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. K 16: Elevation 26.047 feet m.s.l.

HADDAM No. 38 Elev. 21.275 feet m.s.l.

Higganum railroad station.

The High Water Mark is shown by the top edges of two small brass plates set at the silt line on the upper edge of the second board of the ramp at the north end of the loading platform at Higganum Station.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. K 16: Elevation 26.047 feet m.s.l.

HADDAM No. 40 Elev. 21.273 feet m.s.l.

Higganum railroad station.

The High Water Mark is a cross chipped at the silt line on the west rail of the spur track on the west side of the loading platform near the north end of the Higganum station freight shed.

HADDAM No. 40 (cont'd)

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. K 16: Elevation 26.047 feet m.s.l.

MIDDLETOWN No. 42 Elev. 23.247 feet m.s.l.
Profile Point
Maromas railroad station.

The High Water Mark is the top of a small brass angle set at the scum line on the third W.U.T. Co. pole southeast of the road to Maromas station on the New York, New Haven and Hartford Railroad Valley Division.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; U.S.C.&G., City of Middletown bronze disc on railroad bridge 25/90: Elevation 37.844 feet m.s.l.

MIDDLETOWN No. 44 Elev. 24.420 feet m.s.l.
Profile Point
Laurel, about 200 feet southeast of railroad bridge 26/53 of New York, New Haven and Hartford Railroad Valley Division.

The High Water Mark is the top of a small brass angle set at the scum line on S.N.E.T. pole 540 on River Road about 200 feet southeast of railroad bridge 26/53.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; U.S.C.&G., City of Middletown bronze disc set on railroad bridge 25/90: Elevation 37.844 feet m.s.l.

MIDDLETOWN No. 46 Elev. 24.82 feet m.s.l.
Profile Point
Laurel, 5688 feet below Gauge Station Narrows "B" near railroad underpass, River Road.

The High Water Mark is the top of a large headed galvanized nail set in 2 foot diameter double elm tree near railroad underpass, River Road.

Established and referenced by State Water Commission. Class B. B.M. used; northwest corner signal tower base: Elevation 37.281 feet. Run from U.S.C.&G. B.M. H 16: Elevation 48.806 feet m.s.l.

MIDDLETOWN No. 48 A Elev. 25.34 feet m.s.l.

Narrows, tree near concrete wall, dock of International Feldspar Company.

MIDDLETOWN No. 48 A (cont'd)

The High Water Mark is top of large headed galvanized nail set in tree near concrete wall, dock of International Feldspar Company.

Established and referenced by State Water Commission. Class B. B.M. used; northwest corner signal tower base: Elevation 37.281 feet run from U.S.C.&G. B.M. H 16: Elevation 48,806 feet m.s.l.

MIDDLETOWN No. 50 Elev. 25.51 feet m.s.l.
Profile Point
Narrows - 425 feet ± south of railroad monument #3

The High Water Mark is top of large headed galvanized nail set in tree about 425 feet south of railroad monument #3.

Established and referenced by the State Water Commission. Class B. B.M. used; northwest corner signal tower base: Elevation 37.281 feet m.s.l. Run from U.S.C.&G. B.M. H 16: Elevation 48.806 feet m.s.l.

MIDDLETOWN No. 52 A Elev. 25.671 feet m.s.l.
Profile Point
Narrows: southeast of Connecticut State Hospital Chicken Farm.

The High Water Mark is the top of a small brass angle set at the scum line on an 8 inch ash tree about 3 feet southwest of gauge station on river bank at station 1455 + 94.20. Gauge station is about 60 feet north of New York, New Haven and Hartford Valley Division Railroad tracks, and 65 feet west of old signal tower base, 18 feet east of railroad mere stone 1456 + 12.20. The highest gauge reading has an elevation of 25.716 feet m.s.l. Gauge designated as Point 52.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; northwest corner of old signal tower base, C.G.W.S. Elevation 37.281 feet m.s.l. Run from U.S.C.&G. B.M. H 16: Elevation 48,806 feet m.s.l.

MIDDLETOWN No. 54 Elev. 25.636 feet m.s.l.
Profile Point
Narrows; southeast of Connecticut State Hospital Farm

The High Water Mark is the top edge of a small brass plate set at the scum line on the larger bole of a 14-inch twin oak tree, east of and in line with a foot path leading to the bank of the river at south end of a small cut on New York, New Haven and Hartford Valley Division railroad.

MIDDLETOWN No. 54 (cont'd)

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; northwest corner of old signal tower base, C.G.W.S.
Elevation 37.281 feet m.s.l. Run from U.S.C.&G. B.M. H 16:
Elevation 48.806 feet m.s.l.

MIDDLETOWN No. 56 Elev. 26.366 feet m.s.l.

Silver Mine brook at bridge 28/04

The High Water Mark is the top edge of a small brass plate set at the scum line on a railroad tie in line with the third W.U.T. Co. pole west of trestle 28/04 and second west of trestle marking sign.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; northwest corner of old signal tower base, C.G.W.S. Elevation 37.281 feet m.s.l. Run from U.S.C.&G. B.M. H 16: Elevation 48.806 feet m.s.l.

MIDDLETOWN No. 60 Elev. 26.174 feet m.s.l.
Profile Point
Town Farm; corner of Silver Street and River Road

The High Water Mark is the top of a small brass angle set at the scum line on the southeast corner of the east face of a large red barn at the Middletown Town Farm

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; southeast corner of concrete pier under Connecticut State Hospital coal elevator north of Town Farm; C.G.W.S.
Elevation 26.263 feet m.s.l. Run from U.S.C.&G. B.M. H 16:
Elevation 48.806 feet m.s.l.

MIDDLETOWN No. 62 Elev. 27.330 feet m.s.l.
Profile Point
Sumner Creek; Sewage Disposal Plant

The High Water Mark is a point 3.05 feet below 1936 flood crest marker on the south face of the southwest corner of the treatment building at the Middletown Sewage Disposal Plant.

Established and referenced by Middletown Department of Public Works. Class A.

MIDDLETOWN No. 66 Elev. 27.246 feet m.s.l.
Profile Point
Little River bridge on Route 9 at Middletown-Cromwell town line.

MIDDLETOWN No. 66 (cont'd)

The High Water Mark is the top of a small brass angle set at the scum line on C.L.P. Co. pole 829. Pole is 11.69 feet south of west end of south abutment of bridge.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; Bronze disc in south end of west abutment of old Middletown - Portland highway bridge. U.S.C.&G. Tidal B.M: Elevation 30.368 feet m.s.l.

CROMWELL No. 68 Elev. 28.539 feet m.s.l.
Profile Point
Main Street; immediately east of railroad station:

The High Water Mark is a copper nail set at the scum line on the west face at the northwest corner of the City Service Gas Station. This is at the same location and immediately below C.G.W.S. 1936 high water mark 47.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 High Water Mark no. 47: Elevation 31.449 feet m.s.l. Run from U.S.C.&G. B.M., 300 feet northeast of railroad station and 7 feet west of granite monument on green: Elevation 29.370 feet m.s.l.

CROMWELL No. 70 A Elev. 28.533 feet m.s.l.

Cromwell Center: just south of railroad crossing on Conn. Route 9.

The High Water Mark is a small copper plug set at the scum line on C.L.&P. Co. pole 78.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 High Water Mark plug no. 47: Elevation 31.449 feet m.s.l. Run from U.S.C.&G. B.M., 300 feet northeast of railroad station and 7 feet west of granite monument on green: Elevation 29.370 feet m.s.l.

CROMWELL No. 72 A Elev. 29.070 feet m.s.l.
Profile Point
Wall Street; at east end.

The High Water Mark is a small brass nail set at the scum line in the sill of the first window east of front door of the fourth house from the east end of Wall Street on the north side of the street.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. south entrance platform of house at east end of Wall Street:

CROMWELL No. 72 A (cont'd)

Elevation 19.972 feet m.s.l. Run from U.S.C.&G. B.M., 300 feet northeast of railroad station and 7 feet west of granite monument on green: Elevation 29.370 feet m.s.l.

CROMWELL No. 74 Elev. 29.721 feet m.s.l.
Profile Point
Nook's Hill Road; at east end of road.

The High Water Mark is a distinct scum line 3.755 feet below a nail in a 10-inch black oak tree on the north side of the road and about 30 feet northeast of a sign reading "End of Road."

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; U.S.C.&G., 300 feet northeast of railroad station and 7 feet west of granite monument on green: Elevation 29.370 feet m.s.l.

ROCKY HILL No. 76 Elev. 30.574 feet m.s.l.
Profile Point
Dividend; Hartford Rayon Corporation

The High Water Mark is a scum line on the Fire House next to large brick boiler room.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; City of Hartford Engineering Department 1936 flood crest plug: Elevation 33.39 feet m.s.l.

ROCKY HILL No. 78 Elev. 30.58 feet m.s.l.

Dividend; Hartford Rayon Corporation

The High Water Mark is 2.81 feet below bronze marker in concrete on west face of power house 1.5 feet south of northwest corner.

Established and referenced by Hartford City Engineering Department. Class A.

ROCKY HILL No. 80 Elev. 31.45 feet m.s.l.

American Oil Company

The High Water Mark is 3.15 feet below a bronze marker set in the southeast corner of the concrete fire wall surrounding the horizontal loading tanks at the American Oil Company bulk plant.

Established and referenced by Hartford City Engineering Department. Class A.

ROCKY HILL No. 82 Elev. 31.790 feet m.s.l.
Profile Point

Connecticut Foundry Company

The High Water Mark is a scum line at the southeast corner on the south face of brick building.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest mark no. 50: Elevation 34.898 feet m.s.l. Run from U.S.G.S. B.M. 107-96 W. 1923:
Elevation 106.895 feet m.s.l.

ROCKY HILL No. 84 A Elev. 31.796 feet m.s.l.
Profile Point

Connecticut Foundry Company

The High Water Mark is the top of a copper nail set at the scum line on H.E.L.Co. pole at the southwest corner, west face near door to building.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest mark no. 50: Elevation 34.898 feet m.s.l. Run from U.S.G.S. B.M. 107-96 W 1923:
Elevation 106.895 feet m.s.l.

ROCKY HILL No. 86 A. Elev. 31.976 feet m.s.l.
Profile Point

Meadow Street

The High Water Mark is a copper nail set on the scum line at the southwest corner, south face, the main part of a grey house north of the Connecticut Foundry.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest mark no. 50: Elevation 34.898 feet m.s.l.
Run from U.S.G.S. B.M. 107-96 W 1923:
Elevation 106.895 feet m.s.l.

ROCKY HILL No. 90 A Elev. 32.590 feet m.s.l.
Profile Point

Silas Deane Highway; $\frac{1}{4}$ mile south of
Wethersfield Town Line

The High Water Mark is a copper nail set at the scum line on the twenty-seventh highway post from the south end of a line of posts on the west side of Conn. Route 9 about 100 feet north of the high tension line tower and about 0.2 miles north of H.E.L. Co. pole 703.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. top of northwest corner of culvert, west side of Conn. Route 9 about 100 feet north of high tension wire tower:

ROCKY HILL No. 90 A (cont'd)

Elevation 27.366 feet m.s.l. Run from Metropolitan District B.M. 133: Elevation 38.981 feet m.s.l.

WETHERSFIELD No. 92 A Elev. 32.411 feet m.s.l.
Profile Point
Silas Deane Highway near Rocky Hill Town Line

The High Water Mark is a copper nail set at the scum line on a highway post on the east side of Conn. Route 9 and 8 feet north of H.E.L. Co. pole 1543.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; Metropolitan District B.M. 133: Elevation 38.981 feet m.s.l.

WETHERSFIELD No. 94 A Elev. 32.518 feet m.s.l.
Profile Point
11 Maple Street

The High Water Mark is a copper nail set at the scum line on the southeast post of a veranda on the south side of house at 11 Maple Street.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; Metropolitan District B.M. 140: Elevation 61.273 feet m.s.l.

WETHERSFIELD No. 96 A Elev. 32.442 feet m.s.l.
Profile Point
Elm Street

The High Water Mark is a copper nail set at the scum line in S.N.E.T.Co. pole 554 on north side of Elm Street near the beginning of a highway fence.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; Metropolitan District B.M. 140 d; Elevation 38.036 feet m.s.l.

WETHERSFIELD No. 98 A Elev. 32.720 feet m.s.l.

Main Street (near Silas Deane Highway)

The High Water Mark is a copper nail set at the scum line on S.N.E.T. Co. pole 624 about 35 feet east of New York, New Haven and Hartford Valley Division Railroad tracks on the south side of Main Street.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest mark no. 58 on S.N.E.T. Co. pole 652; Elevation 35.120 feet m.s.l. Run from U.S.G.S. B.M. 45-97 W-1923: Elevation 44.640 feet m.s.l.

WETHERSFIELD No. 100 Elev. 32.48 feet m.s.l.

17 Broad Street

The High Water Mark is 2.82 feet below bronze marker in north face of brownstone foundation, 1.6 feet west of northwest corner.

Established and referenced by Hartford City Engineering Department. Class A.

WETHERSFIELD No. 102 A Elev. 32.786 feet m.s.l.
Profile Point

Marsh Street at Broad Street

The High Water Mark is a keel mark at the scum line on the southwest corner of west face of house at 17 Marsh Street.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S., top of boulder at northeast corner of the green: Elevation 29.310 feet m.s.l. Run from U.S.G.S. B.M. 45-97 W-1923: Elevation 44.787 feet m.s.l.

WETHERSFIELD No. 104 Elev. 33.10 feet m.s.l.
Profile Point

State Prison

The High Water Mark is 2.56 feet below a bronze marker in the north face of the concrete tower house at the northwest corner of prison wall facing Wethersfield Cove.

Established and referenced by Hartford City Engineering Department. Class A.

HARTFORD No. 106 Elev. 34.53 feet m.s.l.
Profile Point

Van Dyke Avenue at Colt's Office

No definite description:

The High Water Mark established and referenced by Hartford City Engineering Department. Class A.

HARTFORD No. 108 Elev. 34.65 feet m.s.l.
Profile Point

State Street

The High Water Mark is 2.08 feet below a bronze marker at the northwest corner of the old Valley Division, New York, New Haven and Hartford Railroad depot.

Established and referenced by Hartford City Engineering Department. Class A.

HARTFORD No. 110 Elev. 35.21 feet m.s.l.
Profile Point

190 Morgan Street

The High Water Mark is 2.07 feet below a bronze marker in brick work at east side of entrance to the New England Transportation Company at 190 Morgan Street.

Established and referenced by Hartford City Engineering Department. Class A.

HARTFORD No. 112 Elev. 35.20 feet m.s.l.
Profile Point

166 Village Street

The High Water Mark is 2.24 feet below a bronze marker in the north face of brown stone arch south of the side entrance to the City Missionary Society at 166 Village Street.

Established and referenced by Hartford City Engineering Department. Class A.

HARTFORD No. 114 Elev. 35.43 feet m.s.l.
Profile Point

503 Windsor Street

The High Water Mark is 2.16 feet below a bronze marker in the east face, south side of the entrance to the New England Brewery boiler room at 503 Windsor Street.

Established and referenced by Hartford City Engineering Department. Class A.

HARTFORD No. 116 Elev. 35.56 feet m.s.l.
Profile Point

95 Sanford Street

The High Water Mark is 2.23 feet below a bronze marker in the northwest corner of Rogers Sash and Door Company building at 95 Sanford Street.

Established and referenced by Hartford City Engineering Department. Class A.

HARTFORD No. 118 Elev. 35.60 feet m.s.l.
Profile Point

Windsor Street at Main Street

The High Water Mark is 2.26 feet below a bronze marker in the Terry Steam Turbine Company Office at the corner of Windsor and Main Streets.

Established and referenced by Hartford City Engineering Department. Class A.

HARTFORD No. 120 Elev. 35.72 feet m.s.l.
Profile Point
2688 Main Street, opposite Earle Street

The High Water Mark is 2.14 feet below a bronze marker in the north face of building, 4.5 feet east of the northwest corner at 2688 Main Street.

Established and referenced by Hartford City Engineering Department. Class A.

HARTFORD No. 122 Elev. 35.68 feet m.s.l.
Profile Point
3340 Main Street

The High Water Mark is 2.25 feet below a bronze marker in the south face of brick pilaster at southwest corner of the Rolland Motor Company building at 3340 Main Street.

Established and referenced by Hartford City Engineering Department. Class A.

WINDSOR No. 126 Elev. 35.85 feet m.s.l.

Wilson; Wilson Fire Station

The High Water Mark is 1.91 feet below bronze marker in the Wilson Avenue Fire House artificial stone foundation, at the center of west face of building.

Established and referenced by Hartford City Engineering Department. Class A.

WINDSOR No. 130 Elev. 36.63 feet m.s.l.
Profile Point
Loomis Institute

The High Water Mark is a small brass U.S.G.S. marker set at the scum line on the exterior face of the boiler room north wall in the brick work west of ground level entrance doors and 2 feet below C.G.W.S. 1936 flood crest marker no. 76.

Established by Loomis Institute maintenance foreman and referenced by Connecticut Ground Water Survey. Class B. Reference B.M. used; C.G.W.S. 1936 high water marker: Elevation 38.534 feet m.s.l. Run from U.S.C.&G. B.M. H 8: Elevation 35.699 feet m.s.l.

WINDSOR No. 132 Elev. 36.77 feet m.s.l.
Profile Point
Loomis Institute Road at Railroad Underpass.

No definite description.
Established and referenced by Hartford City Engineering Department. Class A.

WINDSOR No. 136 Elev. 36.86 feet m.s.l.
Profile Point

Palisado Avenue

The High Water Mark is 1.81 feet below a brass marker on west wall of the highway underpass at New York, New Haven and Hartford Railroad.

Established and referenced by Hartford City Engineering Department. Class A.

WINDSOR LOCKS No. 142 Elev. 38.76 feet m.s.l.
Profile Point

Dexter Paper Mill

The High Water Mark is 1.43 feet below a bronze marker in north face of building first concrete abutment east of large door.

Established and referenced by Hartford City Engineering Department. Class A.

WINDSOR LOCKS No. 144 Elev. 38.75 feet m.s.l.
Profile Point

Canada Dry Ginger Ale Company

The High Water Mark is 1.45 feet below a bronze marker in south face of building.

Established and referenced by Hartford City Engineering Department. Class A.

WINDSOR LOCKS No. 146 Elev. 38.33 feet m.s.l.
Profile Point

Montgomery Company, inside main building.

The High Water Mark is a pencil mark at the scum line on south side of the north wall of main stairwell to basement 8.270 feet above the ground floor level at foot of stairs.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. M 8: Elevation 37.401 feet m.s.l.

WINDSOR LOCKS No. 148 Elev. 38.68 feet m.s.l.

Montgomery Company, outside main building

The High Water Mark is a blue keel mark at the scum line on the south face of building 20 feet from the south east corner on concrete pilaster.

WINDSOR LOCKS No. 148 (cont'd)

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; U.S.C.&G. M 8: Elevation 37.401 feet m.s.l.

WINDSOR LOCKS No. 152 Elev. 38.791 feet m.s.l.

E. Horton and Son Company

The High Water Mark is a small brass U.S.G.S. marker set at the oil line on a wooden supporting post at the south side of stairway to basement.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. M 8: Elevation 37.401 feet m.s.l.

LYME No. 3 Elev. 8.858 feet m.s.l.
Profile Point

Old Ely Landing

The High Water Mark is the top of a small brass angle set at the scum line on west face at northwest corner of E. H. Cooper's boat house on pier just below Old Ely Landing.

Established and referenced by Connecticut Ground Water Survey. Class A. B. M. used; U.S.G.S. on sunken boulder in school yard 1.2 miles south of Hamburg: Elevation 113.36 feet m.s.l.

LYME No. 5 Elev. 10.752 feet m.s.l.
Profile Point

Brockway's Ferry Landing

The High Water Mark is the top of a small brass angle set at the scum line on southwest corner west face of a small white ice house south of main house.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.E. 31: Elevation 5.45 feet m.s.l.

LYME No. 7 Elev. 9.867 feet m.s.l.

Hamburg Cove Landing

The High Water Mark is the top of a small brass angle set at the scum line on a 4-inch wooden post 5 feet high, painted white and standing near a hand pump in the rear of J. L. Lord's store on Route 86.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. 26-115 W: Elevation 25.807 feet m.s.l.

LYME No. 9 Elev. 10.113 feet m.s.l.

D.G.Reynolds Boat Storage, Hamburg Cove

The High Water Mark is the top of a small brass angle set at the scum line on the northwest corner of a boat storage building.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. 26-115 W: Elevation 25.807 feet m.s.l.

LYME No. 11 Elev. 13.391 feet m.t.l.

Hadlyme

The High Water Mark is the top of a small brass angle set at the scum line on the southwest corner of a one-story barn, across the road from a pair of Gulf gasoline pumps in front of a green shingled house about one half a mile from Hadlyme Ferry Landing, on highway between Hadlyme and Hamburg, east of Selden's creek.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. 3: Elevation 23.56 feet m.t.l.

LYME No. 13 Elev. 13.603 feet m.t.l.

Hadlyme Ferry Landing

The High Water Mark is the top of a small brass angle set at the scum line on the south side of a 48-inch elm tree east of a frame cottage on terrace just south of the ferry slip.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. 3: Elevation 23.56 feet m.t.l.

LYME No. 15 Elev. 13.494 feet m.t.l.
Profile Point

Hadlyme Ferry Landing

The High Water Mark is a knife cut at flood crest on the northeast corner board of a frame building just south of the ferry slip.

Established by Ferry men and recorded by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. 3: Elevation 23.56 feet m.t.l.

LYME No. 17 Elev. 13.593 feet m.t.l.
Profile Point

Hadlyme Ferry Road

The High Water Mark is the top of a small brass angle set at the scum line on west jamb of entrance gate at Parsons estate.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; U.S.C.&G. 3: Elevation 23.56 feet m.t.l.

LYME No. 19 Elev. 13.246 feet m.t.l.

Hadlyme Road along Roaring Brook

The High Water Mark is the top of a small brass angle set at the scum line on a State Highway fence post across the road from sand pit entrance and about one quarter mile from Hadlyme Landing.

Established and referenced by Connecticut Ground Water Survey.
Class A. B.M. used; U.S.C.&G. 3:
Elevation 23.56 feet m.t.l.

EAST HADDAM No. 21 Elev. 16.165 feet m.s.l.
Profile Point

East Haddam Coal and Lumber Company

The High Water Mark is a pencil mark at the scum line on east side entrance door to small office building.

Established and referenced by Connecticut Ground Water Survey.
Class B. B.M. used; U.S.C.&G. 102 W:
Elevation 28.494 feet m.s.l.

EAST HADDAM No. 23 Elev. 15.857 feet m.s.l.
Profile Point

Tar paper covered garage east of
Riverside Hotel.

The High Water Mark is a yellow keel mark at the scum line on the north face near the northwest corner of building.

Established and referenced by Connecticut Ground Water Survey.
Class A. B.M. used; U.S.C.&G. 102 W:
Elevation 28.494 feet m.s.l.

EAST HADDAM No. 25 Elev. 16.511 feet m.s.l.

Connecticut River Highway
Bridge at south side

The High Water Mark is a pencil mark at the scum line on a metal yoke strap holding electric cable to river face of east shore abutment.

Established and referenced by Connecticut Ground Water Survey.
Class A. B.M. used; U.S.C.&G. 102 W:
Elevation 28.494 feet m.s.l.

EAST HADDAM No. 27 Elev. 16.560 feet m.s.l.

Connecticut River Highway
Bridge at north side

The High Water Mark is a blue keel mark at the scum line on river face at northwest corner of the east shore abutment.

Established and referenced by Connecticut Ground Water Survey.
Class A. B.M. used; U.S.C.&G. 102 W:
Elevation 28.494 feet m.s.l.

EAST HADDAM No. 29 Elev. 17.695 feet m.s.l.
Profile Point

H. D. Hefflon property

The High Water Mark is the top of a small brass angle at the scum line on the northeast corner of a 2-car garage just north of Mobile gasoline pump and about one mile north of East Haddam Bridge on the west side of Route 149.

Established and referenced by Connecticut Ground Water Survey.
Class A. B.M. used; U.S.C.&G. 102 W:
Elevation 28.494 feet m.s.l.

HADDAM No. 31 Elev. 20.293 feet m.s.l.
Profile Point

Haddam Neck, Rock Landing Road

The High Water Mark is the top of a small brass angle at the scum line on S.N.E.T.Co. pole #1118 about 300 feet east of Connecticut River bank on the south side of highway.

Established and referenced by Connecticut Ground Water Survey.
Class B. B.M. used; U.S.E. 34:
Elevation 10.221 feet m.l.w.

HADDAM No. 33 Elev. 19.601 feet m.s.l.

Haddam Neck, Old Rock Landing House

The High Water Mark is the top of a small brass angle at the scum line set on the west face of a newel post at the northwest corner of first landing above ground on exterior front porch stairs of old hotel building facing the Connecticut River.

Established and referenced by Connecticut Ground Water Survey. Class C. B.M. used; U.S.E. 34:
Elevation 10.221 feet m.l.w.

EAST HAMPTON No. 35 Elev. 22.755 feet m.s.l.
Profile Point

Middle Haddam

The High Water Mark is the top of a small brass angle at the scum line 2.4 feet below C.G.W.S. 1936 flood crest marker over east entrance door to boat house on pier owned by George Bowden.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 high water marker: Elevation 25.155 feet m.s.l. Run from U.S.E.B.M. 172:
Elevation 12.000 feet m.t.l.

EAST HAMPTON No. 37 Elev. 24.075 feet m.s.l.
Profile Point

Oakum Road Landing

The High Water Mark is the top of a small brass angle set at the scum line on bole of a 10-inch ash tree about 100 feet from Connecticut River bank on the north side of road. Said road is the first south of Portland-East Hampton town line and running southwest from Route 14 to the river.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.& G.S. one half mile west of Cobalt on stone stop.
Elevation 305.96 feet m.s.l.

PORTLAND No. 39 Elev. 24.737 feet m.s.l.

Seiferman property

The High Water Mark is the top of a small brass angle set at the scum line on the southeast corner of a brick garage north of an old brick residence on the Connecticut River bank at the end of a road running north about 500 feet to Route 14. Said road is the second northwest of Portland-East Hampton town line running to the river.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.& G. W 14:
Elevation 193.422 feet m.s.l.

PORTLAND No. 41 Elev. 26.623 feet m.s.l.

Sand Hill Road Cider Mill

The High Water Mark is the top of a small brass angle set at the scum line on the northeast corner of a red frame building just south of Portland-East Hampton turnpike.

PORTLAND No. 41 (cont'd)

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest marker: Elevation 29.153 feet m.s.l. Run from C.H.D.B.M. on Berman's well:
Elevation 26.970 feet m.s.l.

PORTLAND No. 43 Elev. 26.523 feet m.s.l.
Profile Point

Sand Hill Road

The High Water Mark is the top of a small brass angle set at the scum line on the east side of C.P.Co. pole 385 on the south side of Route 14 near the cider mill.

Established and referenced by Connecticut Ground Water Survey Class A. Reference B.M. used; C.G.W.S.1936 flood crest marker: Elevation 29.153 feet m.s.l. Run from C.H.D.B.M. on Berman's well:
Elevation 26.970 feet m.s.l.

PORTLAND No. 45 Elev. 27.109 feet m.s.l.
Profile Point

Brazos brownstone quarry

The High Water Mark is the bottom of a small plate angle set at the scum line on the southeast corner of frame office building front oil about 1,000 feet north of the Connecticut River Bridge.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1927 flood crest mark: Elevation 21.165 feet m.s.l. Run from U.S.C.& G. B.M. 103:
Elevation 32.929 feet m.s.l.

PORTLAND No. 47 Elev. 30.149 feet m.s.l.
Profile Point

Gildersleeve

The High Water Mark is the bottom of a small brass plate set on the scum line at the southeast corner of a frame house used as the Liberty Mica Company office.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest marker in highway post. Elevation 32.847 feet m.s.l. Run from C.H.D.B.M. on Soldier's monument:
Elevation 128.415 feet m.s.l.

PORTLAND No. 49 Elev. 30.599 feet m.s.l.
Profile Point

River Road, North Gildersleeve

The High Water Mark is the top of a small brass plate set at the scum line on the northeast corner of enclosed porch of a white house on the west side of Route 15 opposite S.N.E.T. pole 235.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. 1292: Elevation 158.886 feet m.s.l.

GLASTONBURY No. 51 Elev. 31.224 feet m.s.l.
Profile Point

River Road Tobacco Barn

The High Water Mark is the bottom edge of a small brass plate at the scum line on the northeast corner of barn west of S.N.E.T. Co. pole 2743 on Route 160.

Established and referenced by Connecticut Ground Water Survey. Class B. C.H.D.B.M. spike in maple tree: Elevation 44.655 feet m.s.l.

GLASTONBURY No. 53 Elev. 31.797 feet m.s.l.
Profile Point

J. Hodges, 8 Ferry Road

The High Water Mark is keel mark on the scum line inside of north wall of garage south of 8 Ferry Road.

Established and referenced by Connecticut Ground Water Survey. Class A. C.H.D.B.M. spike in maple tree: Elevation 44.655 feet m.s.l.

GLASTONBURY No. 55 Elev. 31.697 feet m.s.l.
Profile Point

Louis Palmieri property, 99 Ferry Road

The High Water Mark is the top edge of a small brass plate set at the scum line on east side casing of rear door to house.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; U.S.G.S. 1288: Elevation 37.225 feet m.s.l.

GLASTONBURY No. 57 Elev. 32.575 feet m.s.l.
Profile Point

Mrs. Nye property, 46 Pease Avenue

The High Water Mark is the top edge of a small brass plate set at the top of water stain on the north side of first window south of corner on west side of house at end of road.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.G.S. 1288:
Elevation 37.225 feet m.s.l.

GLASTONBURY No. 59 Elev. 32.564 feet m.s.l.
Profile Point

Mrs. Haagensen property, Route 15

The High Water Mark is the top of a small brass plate set at the scum line on the west side of first window from the south east corner on the south face of frame house, the fifth south of Station 41 on the west side of the road.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest marker 55: Elevation 35.207 feet m.s.l. Run from C.H.D. Sta. 41 B.M. spike in maple tree:
Elevation 35.207 feet m.s.l.

GLASTONBURY No. 61 Elev. 33.013 feet m.s.l.
Profile Point

Grange Hall

The High Water Mark is a blue keel mark at the scum line on center of the third course of brick above concrete foundation on the northwest corner of Grange Hall.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.G.S. 264:
Elevation 30.307 feet m.s.l.

GLASTONBURY No. 63 Elev. 33.031 feet m.s.l.
Profile Point

J.E.Berry Sons Co., Inc.

The High Water Mark is the top edge of a small brass plate on flood stain at the north office window on the east side of building south of Naubuc Avenue.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.G.S. 264:
Elevation 30.307 feet m.s.l.

GLASTONBURY No. 65 Elev. 33.024 feet m.s.l.
Profile Point

Williams Silver Company

The High Water Mark is the center of a black paint mark at the scum line on the east wall inside of the generator room.

Established by the power plant engineer and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.G.S. 264:
Elevation 30.307 feet m.s.l.

GLASTONBURY No. 67 Elev. 33.062 feet m.s.l.
Profile Point

Pratt Street at Route 15

The High Water Mark is a pencil mark on the oily scum line on south wall inside Esso Gasoline Station garage.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.G.S. 264:
Elevation 30.307 feet m.s.l.

GLASTONBURY No. 67 A Elev. 32.967 feet m.s.l.

Route 15 at Pratt Street

The High Water Mark is a pencil mark at the scum line on Esso Gasoline Station metal pipe sign post at pump stand.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; U.S.G.S. 264:
Elevation 30.307 feet m.s.l.

GLASTONBURY No. 69 Elev. 33.066 feet m.s.l.
Profile Point

Mrs. Ruoff, 460 Naubuc Avenue

The High Water Mark is the bottom edge of a small brass plate set at the scum line on the northwest side of a 14-inch maple tree in front of house, 42 feet from S.N.E.T.Co. pole and 9 feet from fire hydrant.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.G.S. 265:
Elevation 32.083 feet m.s.l.

EAST HARTFORD No. 71 Elev. 33.054 feet m.s.l.
Profile Point

High Street tobacco barn

The High Water Mark is the top edge of a small brass plate set at the scum line on the north face of a red tobacco barn about 6 feet from the northwest corner and 4 inches above foundation level.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.G.S. 265: Elevation 32.083 feet m.s.l.

EAST HARTFORD No. 73 Elev. 33.750 feet m.s.l.

Monti's Restaurant

The High Water Mark is the top edge of a small brass plate at the scum line on the southwest corner of garage building east of restaurant, east side of Route 15 and south of Willow Brook.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; C.H.D. 5: Elevation 31.044 feet m.s.l.

EAST HARTFORD No. 75 Elev. 33.606 feet m.s.l.
Profile Point

Willow Brook

The High Water Mark is the top edge of a small brass plate at the scum line on a highway fence post the third north of the south end of fence at the end of the west side walk south of Willow Brook.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; C.H.D. 5: Elevation 31.044 feet m.s.l.

EAST HARTFORD No. 77 Elev. 34.114 feet m.s.l.
Profile Point

Bond Oil Company Gasoline Station

The High Water Mark is the top edge of a small brass plate at the scum line on the south jamb of front entrance door of building on the west side of Route 15 and just north of the Hockanum River.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; C.H.D. 5: Elevation 31.044 feet m.s.l.

EAST HARTFORD No. 81 Elev. 34.53 feet m.s.l.
Profile Point

Tower Road

The High Water Mark is a nail set in pole at time of flood crest.

Established and referenced by East Hartford W. P. A. Class A.

SOUTH WINDSOR No. 85 Elev. 36.269 feet m.s.l.
Profile Point

Square Deal (Gulf) Gasoline Station

The High Water Mark is a U.S.G.S.small brass marker set at the scum line on the south door jamb of east face double doors at front of building on west side of Route 5.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.G.S. 1267: Elevation 31.916 feet m.s.l.

SOUTH WINDSOR No. 87 Elev. 37.082 feet m.s.l.
Profile Point

Mrs. Newberry's property, Route 5

The High Water Mark is a nail scratch on the northeast corner board of shingled garage in rear of house on west side of highway.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.G.S. TT-Y-22: Elevation 40.869 feet m.s.l.

EAST WINDSOR No. 89 Elev. 38.204 feet m.s.l.
Profile Point

Dean Street, Warehouse Point

The High Water Mark is a 20d spike at the scum line on the east side of a 12-inch hickory tree at the northwest corner of Dean and Spring Streets.

Established and referenced by Connecticut Ground Water Survey. Class B. Reference B.M. used; C.G.W.S. 1936 flood crest marker #31 on S.N.E.T.Co. pole 1573: Elevation 39.938 feet m.s.l. Run from U.S.C.&G.B.M. M 8: Elevation 37.401 feet m.s.l.

EAST WINDSOR No. 91 Elev. 38.870 feet m.s.l.
Profile Point
School Street, Warehouse Point

The High Water Mark is a pencil mark at the scum line on the west face near the southwest corner of Palmer's chicken coop west of the Police Station.

Established and referenced by Connecticut Ground Water Survey. Class X. Reference B.M. used; C.G.W.S. 1936 flood crest marker #31 on S.N.E.T.Co. pole 1573: Elevation 39.938 feet m.s.l. Run from U.S.C.& G.B.M. M 8: Elevation 37.401 feet m.s.l.

EAST WINDSOR No. 93 Elev. 38.732 feet m.s.l.
Profile Point
Flynn's Tobacco Shop, Warehouse Point

The High Water Mark is a small brass washer on the scum line at the northwest corner of shop four and one half bricks below baseboard.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest marker #31 on S.N.E.T.Co. pole 1573: Elevation 39.938 feet m.s.l. Run from U.S.C.& G.B.M. M 8: Elevation 37.401 feet m.s.l.

EAST WINDSOR No. 95 Elev. 38.639 feet m.s.l.
Profile Point
Cahill's Garage, Warehouse Point
Route U.S. 20

The High Water Mark is an oily scum line on glass panes of north face basement windows.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest marker #31 on S.N.E.T.Co. pole 1573: Elevation 39.938 feet m.s.l. Run from U.S.C.& G.B.M. M 8: Elevation 37.401 feet m.s.l.

EAST WINDSOR No. 97 Elev. 38.648 feet m.s.l.
Profile Point
Mechanics Hall, Warehouse Point,
Route U.S. 20

The High Water Mark is a yellow kool mark at the scum line on the south side basement door jamb at east side of opening, 3 bricks above ground level.

EAST WINDSOR No. 97 (continued)

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest marker #31 on S.N.E.T.Co. pole 1573: Elevation 39.938 feet m.s.l. Run from U.S.C.& G.B.M. M 8: Elevation 37.401 feet m.s.l.

ENFIELD No. 99 Elev. 40.115 feet m.s.l.
Profile Point

State Highway Department Garage
Route U. S. 20

The High Water Mark is a yellow keel mark at the scum line on brick work about 10 feet south of main entrance door jamb.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; U.S.C.& G. O 8: Elevation 61.499 feet m.s.l.

ENFIELD No. 101 Elev. 55.983 feet m.s.l.
Profile Point

Bigelow-Sanford Carpet Company
Thompsonville

The High Water Mark is 7 inches above a crayon mark on the top of the concrete retaining wall west of the power house and about 100 feet from the south end of said retaining wall along the river bank.

Established by the power plant engineer and recorded by Connecticut Ground Water Survey. Class B. B.M. used; U.S.C.& G.S. Q 8:
Elevation 74.403 feet m.s.l.

OLD LYME No. T 1 Elev. 9.175 feet m.s.l.

Blackhall

The Hurricane Wave Crest is a yellow keel mark at the scum line at the southwest corner of a small brown shingled house on the south side of Route 15, the second house west of the South Lyme station road.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. J 5: Elevation 23.655 feet m.s.l.

OLD LYME No. T 3 Elev. 9.094 feet m.s.l.

Blackhall

The Hurricane Wave Crest is a yellow keel mark at the scum line on the northwest corner of foundation of house, the first south of Old Lyme Railroad Station on the west side of Route 15.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. J 5: Elevation 23.655 feet m.s.l.

OLD LYME No. T 5 Elev. 9.688 feet m.s.l.

Quarry Point Landing

The Hurricane Wave Crest is a small brass angle at the scum line on an old 6-inch dead cedar tree about 50 feet east of dock piling.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.E. at Calves Island coal wharf: Elevation 3.7 feet m.l.w.

LYME No. T 7 Elev. 8.790 feet m.s.l.

Brockway's Ferry Landing

The Hurricane Wave Crest is a yellow keel mark at the scum line on the stone foundation of a small ice house south of main house on the river front.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.E. 31: Elevation 5.45 feet m.s.l.

LYME No. T 9 Elev. 10.175 feet m.s.l.

Cove Landing

The Hurricane Wave Crest is the top of a small brass angle at the southwest corner of a 5-car frame garage at the north side of land in rear of J. L. Lord's store.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. 26-115 W: Elevation 25.807 feet m.s.l.

LYME No. T 13 Elev. 11.33 feet m.t.l.

Hadlyme Center

The Hurricane Wave Crest is a yellow keel mark at the scum line on the southwest corner of a frame garage opposite the Gulf Filling Station, about 1/2 mile from Hadlyme Ferry Landing on highway between Hadlyme and Hamburg Cove.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. 3: Elevation 23.538 feet m.t.l.

OLD SAYBROOK No. T 2 Elev. 9.418 feet m.s.l.

Saybrook Point

The Hurricane Wave Crest is a yellow keel mark at the scum line on the southeast corner of the single concrete step in the front entrance walk to the Pease House Grill.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. U 16: Elevation 29.508 feet m.s.l.

OLD SAYBROOK No. T 4 Elev. 9.145 feet m.s.l.

Saybrook Highway Bridge

The Hurricane Wave Crest is the top of a small brass angle set on the water stain line at the northeast corner of Persson's Boat Works.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. water gauge at Persson's Dock: Elevation 6.812 feet m.l.w.

ESSEX No. T 6 Elev. 9.961 feet m.s.l.

Essex Paint and Marine Company
Novelty Lane

The Hurricane Wave Crest is the top of a small brass angle set at the scum line on a window frame near the southwest corner of brick building of Essex Paint & Marine Company close to Socony gasoline pumps.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. used; C.G.W.S. 1936 flood crest marker: Elevation 10.205 feet m.s.l.

SAYBROOK No. T 8 Elev. 10.6[illegible] feet m.s.l.

Essex Street, Deep River

The Hurricane Wave Crest about 2 feet below 1938 high water mark at the scum line on northwest corner of a small shed on the south side of Essex Street east of Pratt's Creek.

Established by Connecticut Ground Water Survey. Class X. B.M. used; U.S.C.&G. Q 16: Elevation 17.241 feet m.s.l.

CHESTER No. T 10 Elev. 10.456 feet m.s.l.

Chester Center

The Hurricane Wave Crest is the top of a small brass angle at the scum line on the east side of door frame of the east door on the north face of rubble stone Esso filling station building opposite old stone tavern.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. P 16: Elevation 21.775 feet m.s.l.

CHESTER No. T 12 Elev. 10.551 feet m.s.l.

Intersection of Route 148 and
Route 9

The Hurricane Wave Crest is a small brass plate set at the scum line on the southwest corner of the Gulf filling station building at the southwest corner of highway intersection.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. P 16: Elevation 21.775 feet m.s.l.

MIDDLETOWN No. L. R. 1* Elev. 28.217 feet m.s.l.

Newfield Street, J. J. Smith house

The High Water Mark is the top of brass marker set in the southwest corner of south face of J. J. Smith house, east of railroad crossing, Newfield Street.

Established and referenced by the Connecticut Ground Water Survey. Class A. B.M. used; 1936 High Water Mark, copper plug set in the southwest corner, west face of brick house 50.0'± east of railroad switch and south of Smith house. Elevation 31.349 feet m.s.l. Run from U.S.C.&G. B.M. E 16: Elevation 21.926 feet m.s.l.

MIDDLETOWN No. L. R. 2 Elev. 28.279 feet m.s.l.

Newfield Street, H. LeBlanc house, near railroad.

The High Water Mark is top of brass nail set under 1936 high water mark, in southwest corner south face of brick house (H. LeBlanc) 50.0 feet east of railroad switch for spur to Tuttle Brick Company.

Established and referenced by the Connecticut Ground Water Survey. Class A. B.M. used; 1936 High Water Mark directly under 1938 High Water Mark: Elevation 31.349 feet m.s.l.

MIDDLETOWN No. L. R. 3 Elev. 28.104 feet m.s.l.

Newfield Street clothes line pole southwest of LeBlanc house.

The High Water Mark is the top of brass marker set on clothes line pole 32.2 feet southwest of house.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; 1936 High Water Mark copper plug in southwest corner of house: Elevation 31.349 feet m.s.l.

MIDDLETOWN No. L. R. 4 Elev. 28.254 feet m.s.l.

Newfield St. house east of LeBlanc's

The High Water Mark is top of brass marker set in first wooden step of two story wooden house east of LeBlanc and 100.0 feet more or less east of railroad tracks.

* - Little River

MIDDLETOWN No. L. R. 4 (cont'd)

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; 1936 High Water Mark on LeBlanc house: Elevation 31.349 feet m.s.l.

CROMWELL No. L. R. 5 Elev. 28.261 feet m.s.l.

Coles Road and Route 72

The High Water Mark is top of brass marker set in the west side of S.N.E.T. Co. pole 860 located at the intersection of Coles Road and Route 72.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; U.S.C.&G. E 16, 0.6 miles north of Westfield station site: Elevation 21.929 feet m.s.l.

EAST BERLIN No. L. R. 6 Elev. 29.074 feet m.s.l.

Mill St. and Route 72
(Cielke House)

The High Water Mark is top of brass marker set in the southwest corner of R. Cielke house located at the intersection of Mill Street and Route 72, north side of road.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; 1936 High Water Mark #31 on tree west of house: Elevation 31.872 feet m.s.l. Run from U.S.C.&G. B.M. E 16: Elevation 21.926 feet m.s.l.

EAST BERLIN No. L. R. 7 Elev. 28.275 feet m.s.l.

Stanley Chemical Company

The High Water Mark is top of scum line on highway post at west end of bridge 100.0 feet more or less southeast of Stanley Chemical Company.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; 1936 High Water Marker #30 on old brick building: Elevation 31.136 feet m.s.l. Run from U.S.C.&G. D 16: Elevation 24.625 feet m.s.l.

MIDDLETOWN No. C 1 * Elev. 28.330 feet m.s.l.

Arawana Bridge - Road to Berlin

The High Water Mark is scum line on fence post on south side of road east of bridge.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; Middletown Department of Public Works located at east end of south wall Arawana Bridge: Elevation 31.069 feet m.s.l.

MIDDLETOWN No. C 2 Elev. 28.532 feet m.s.l.

Washington Street, west of West St.

The High Water Mark is top of brass angle set in the northeast corner of north face of first yellow building west of concrete bridge south side of highway near I. E. Palmer Plant.

Established and referenced by Connecticut Ground Water Survey. Class B. B.M. used; Middletown Department of Public Works located at top of bronze plug set in southeast abutment of Washington Street bridge: Elevation 25.652 feet m.s.l.

MIDDLETOWN No. C 3 Elev. 27.886 feet m.s.l.

Washington Street Underpass

The High Water Mark is top of chiseled mark in the east end of south abutment, railroad underpass, Washington Street, near City of Middletown yard.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; Middletown Department of Public Works located at top of bronze plug set in east end, north abutment: Elevation 34.534 feet m.s.l.

* - Cochinchaug River

EAST HADDAM No. Sa. 1 Elev. 18.875 feet m.s.l.

Salmon River

The High Water Mark is top of brass angle on C.L.&P. Co. pole 675 on west side of south end of bridge on Route 151.

Established and referenced by Connecticut Ground Water Survey. Class A. B.M. used; 1936 flood marker 9 which is bronze plate on south side of Bridgeway Inn at west end of building: Elevation 21.116 feet m.s.l. Run from U.S.C.&G. B.M. Middletown Quadrangle (Cobalt) 1929 adj. Elev. 305.960 m.s.l.

EAST HADDAM No. Sa. 2 Elev. 18.533 feet m.s.l.

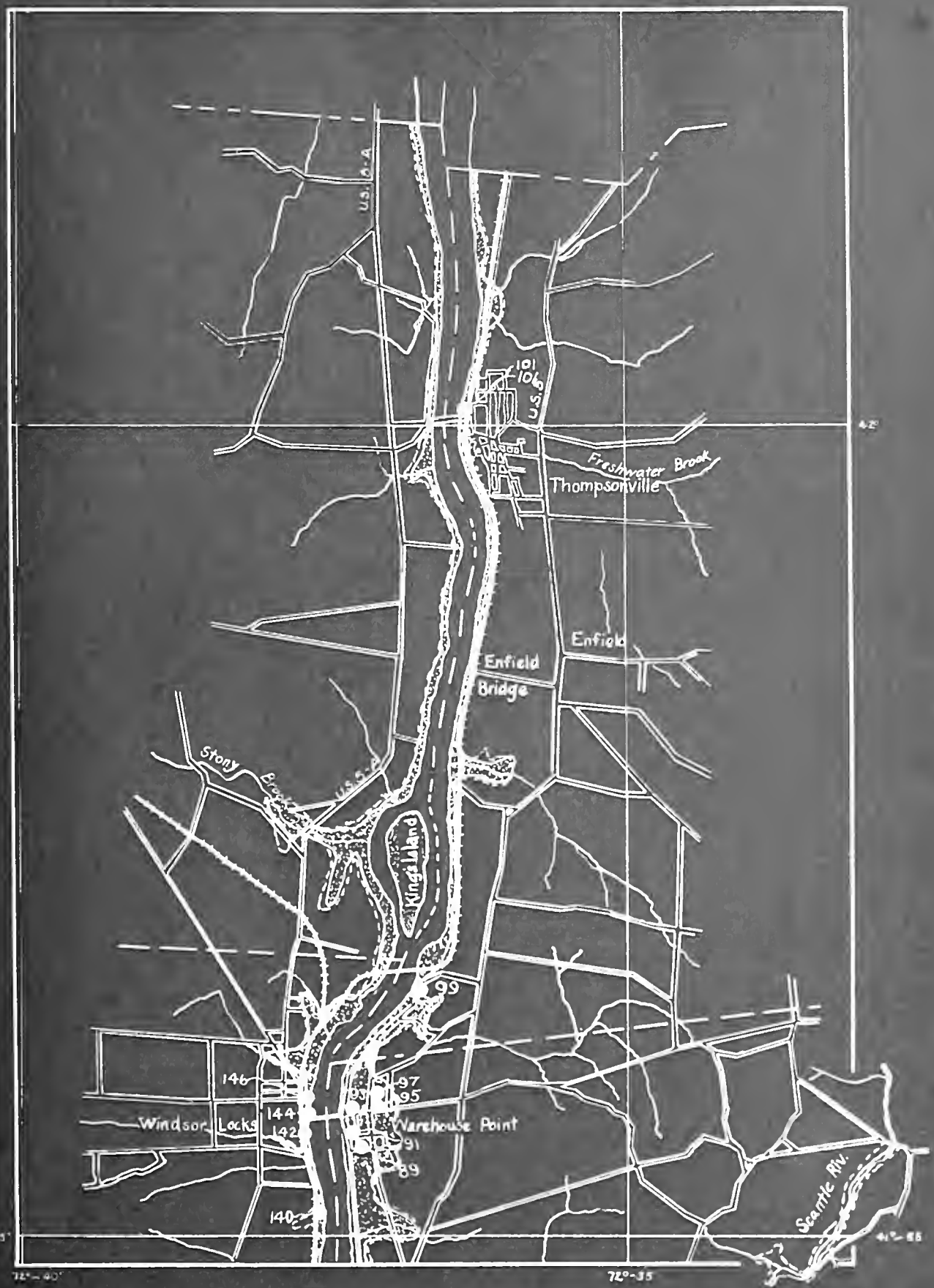
Salmon River

The High Water Mark is scum line on windows south side of Bridgeway Inn - 2.583 feet below 1936 flood marker 9 (bronze plate)

Established and referenced by Connecticut Ground Water Survey. Class A. Measured 1/5/39 by Anderson and Pike. Elev. of 1936 mark - 21.116 feet m.s.l.

AREA FLOODED AND HIGH WATER MARK LOCATIONS
FLOOD OF SEPTEMBER 1938

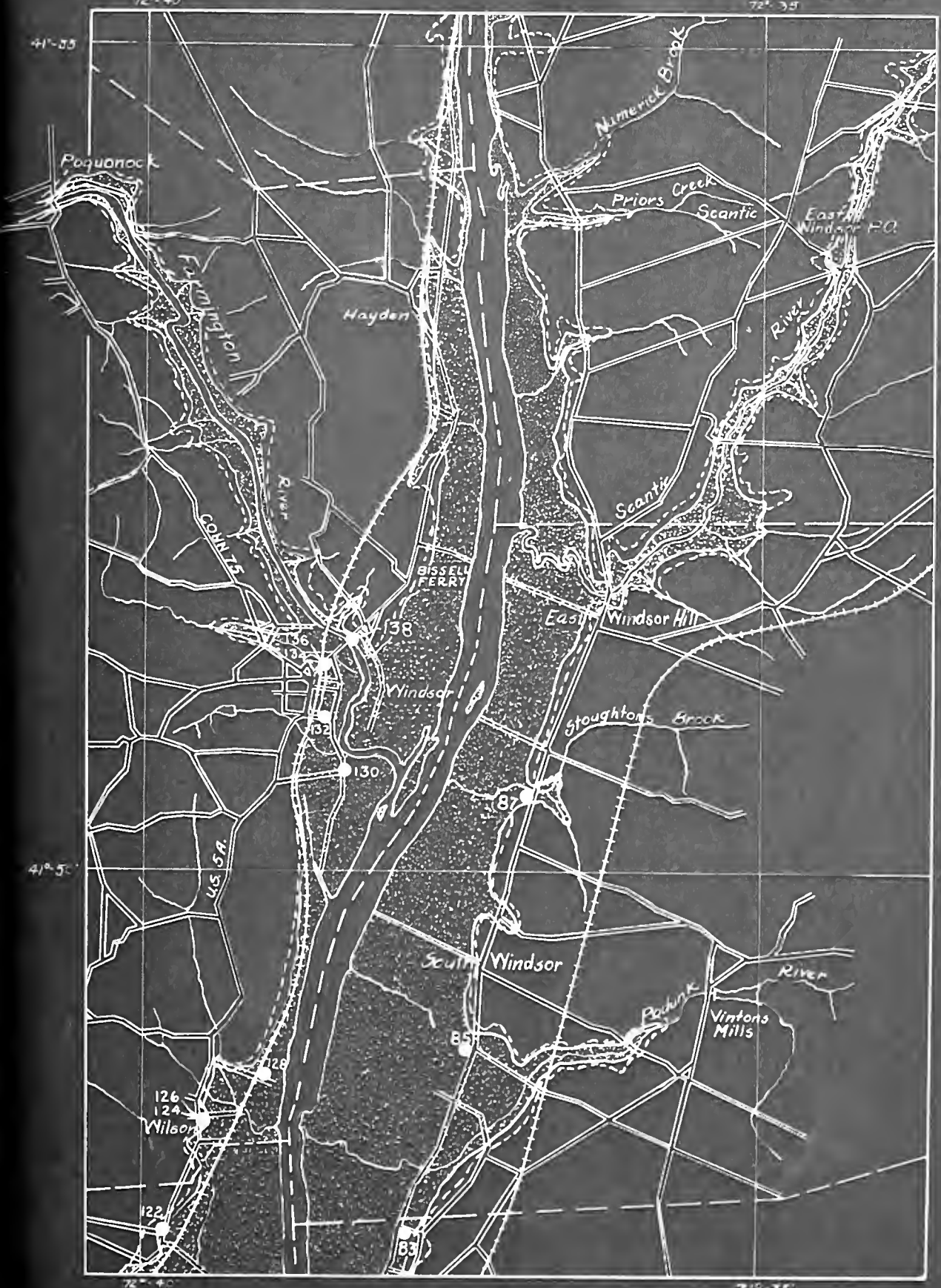
MAP 1 OF 8



PREPARED BY CONN. GROUND WATER SURVEY
W.—P.—A. PROJECT 665—15—3—116

AREA FLOODED AND HIGH WATER MARK LOCATIONS
FLOOD OF SEPTEMBER 1938

MAP 2 OF 8



PREPARED BY CONN. GROUND WATER SURVEY
W.— P.— A. PROJECT 665 — 15 — 3 — 116

AREA FLOODED AND HIGH WATER MARK LOCATIONS
FLOOD OF SEPTEMBER 1938

MAP 3 OF 8

PREPARED BY CONN. GROUND WATER SURVEY

W.—P.—A. PROJECT 665—15—3—116

AREA FLOODED AND HIGH WATER MARK LOCATIONS
FLOOD OF SEPTEMBER 1938

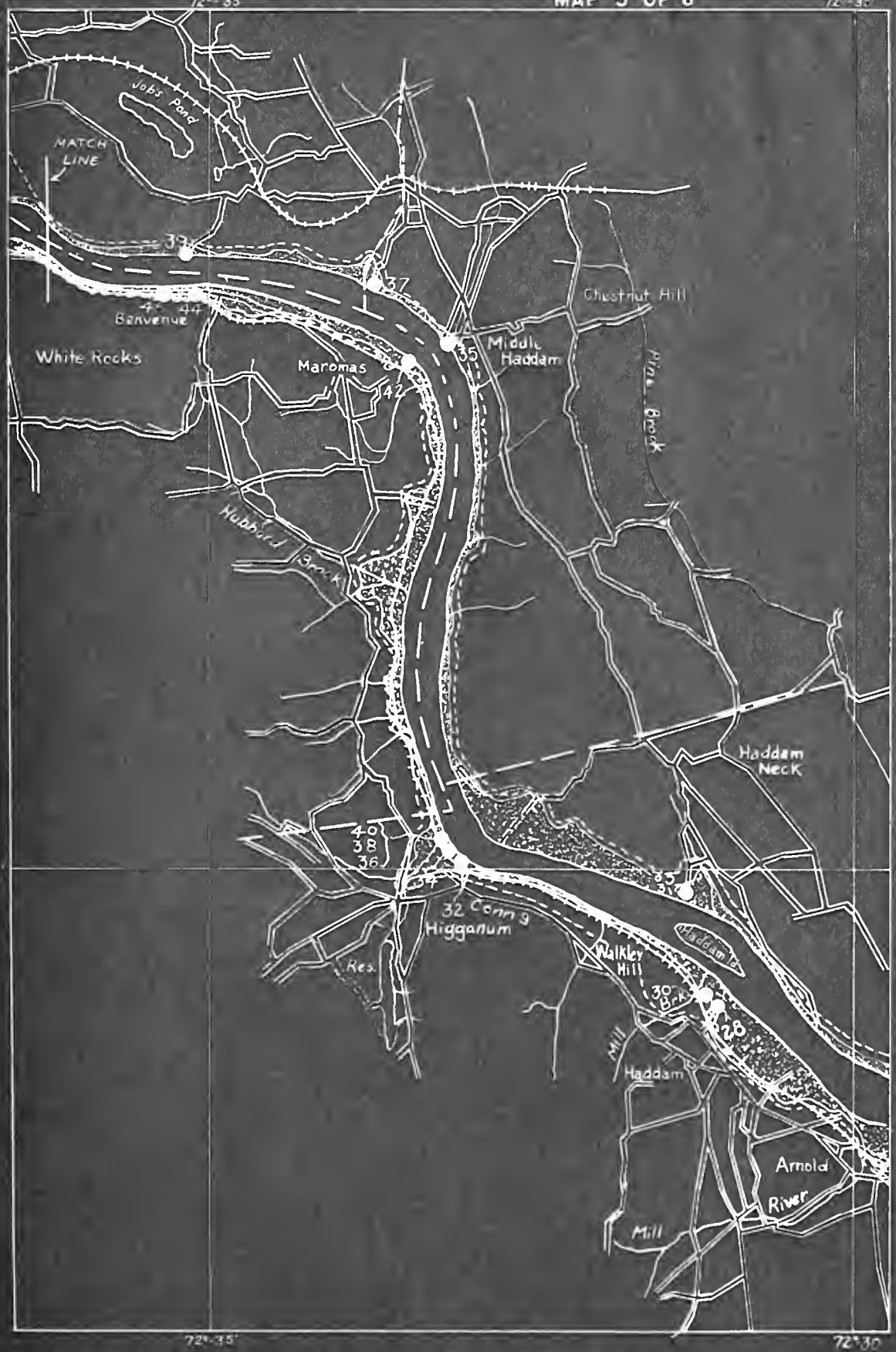
MAP 4 OF 8

PREPARED BY
CONN. GROUND WATER SURVEY

W.—P.—A. POJECT
665—15—3—116

AREA FLOODED AND HIGH WATER MARK LOCATIONS
FLOOD OF SEPTEMBER 1938

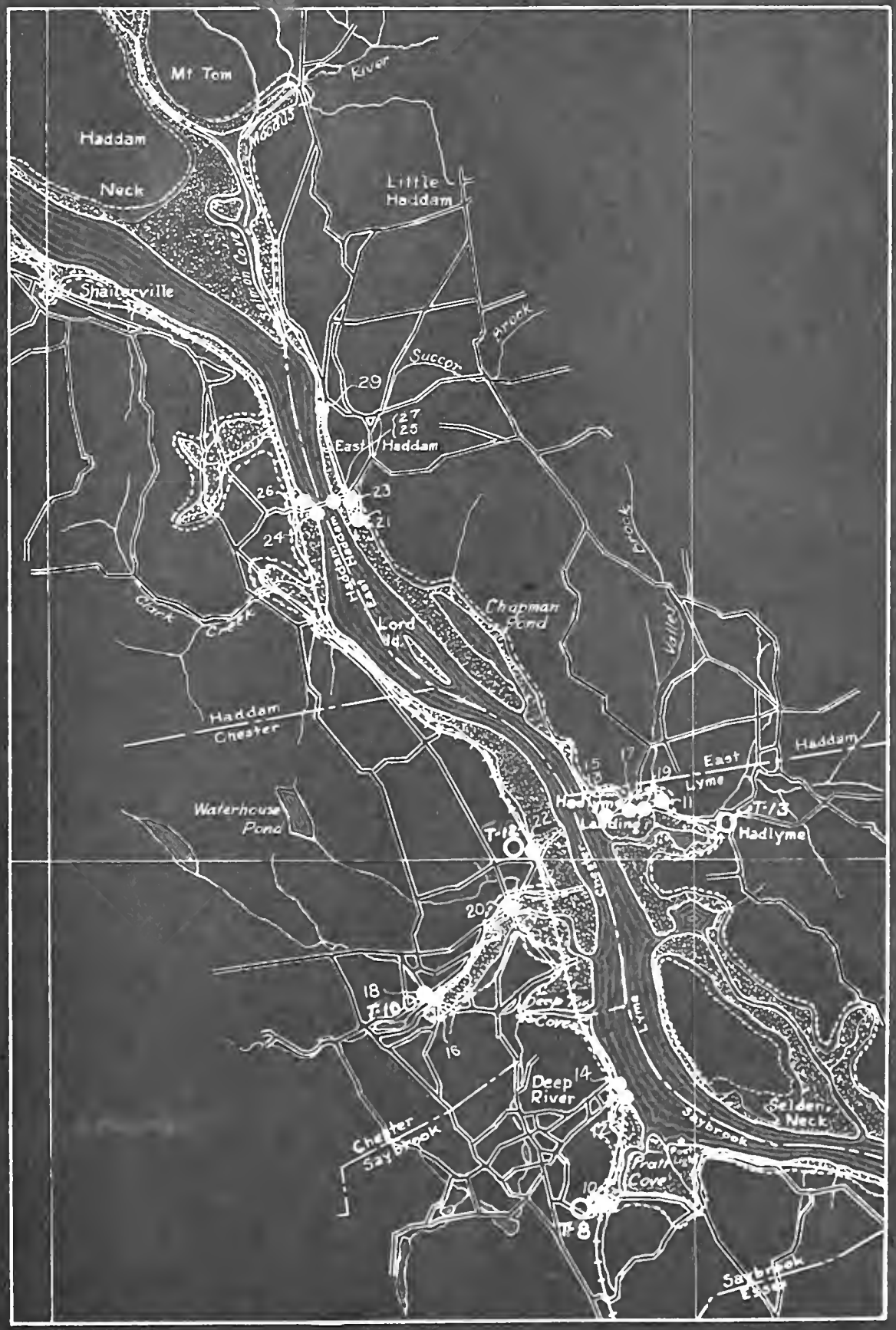
MAP 5 OF 8



PREPARED BY CONN. GROUND WATER SURVEY
W.—P.—A. POJECT 665—15—3—116

AREA FLOODED AND HIGH WATER MARK LOCATIONS
FLOOD OF SEPTEMBER 1938

MAP 6 OF 8



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W.—P.—A. PROJECT 665—15—3—116

AREA FLOODED AND HIGH WATER MARK LOCATIONS
FLOOD OF SEPTEMBER 1938

MAP 7 OF 8

PREPARED BY CONN. GROUND WATER SURVEY
W.— P.— A. PROJECT 665— 15— 3— 116

AREA FLOODED AND HIGH WATER MARK LOCATIONS
FLOOD OF SEPTEMBER 1938

MAP 8 OF 8

LEGEND

1938 HIGH WATER MARKS ●

1938 HURRICANE WAVE CRESTS ○ T

1938 FLOODED AREA

1936 FLOODED AREA

PREPARED BY CONN. GROUND WATER SURVEY
W.-P.-A. PROJECT 665-15-3-116

X. Description of Measurement Stations and Tabulation of Gauge Heights Farmington River Valley

Gauge Heights at East Granby, Connecticut
At Hartford Electric Light Company Dam
1/2 Mile West of Route 187 Steel Bridge Over
Farmington River

Gauge 0.000 = 131.469 feet m.s.l.

OBSERVED BY: Hartford Electric Light Company.

PERIOD: 6:00AM, September 20 to 12:00 Midnight, September 25, 1938.

FLOOD CREST ALTITUDE: 142.869 feet, m.s.l.

DATUM: United States Coast and Geodetic Survey, m.s.l.

LOCATION OF GAUGE: Top of dam at wheel house.

REMARKS: Altitude of measuring point determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge 0.000 is top of dam.

Gauge Heights at East Granby, Connecticut
At Hartford Electric Light Company Dam
1/2 Mile West of Route 187 Steel Bridge Over
Farmington River

Gauge 0.000= 131.469 feet m.s.l.

TIME E.S.T.	STAGE HEIGHT (feet)	ELEVATION m.s.l.	TIME E.S.T.	STAGE HEIGHT (feet)	ELEVATION m.s.l.
September 20, 1938			September 23, 1938		
6:00 AM	2.7	134.169	6:00 AM	9.2	140.669
12:00 Noon	3.6	135.069	12:00 Noon	8.5	139.969
6:00 PM	4.1	135.569	6:00 PM	8.7	140.169
12:00 Mid	4.5	135.969	12:00 Mid	7.2	138.669
September 21, 1938			September 24, 1938		
6:00 AM	5.0	136.469	6:00 AM	6.3	137.769
12:00 Noon	5.5	136.969	12:00 Noon	5.0	136.469
6:00 PM	6.2	137.669	6:00 PM	5.1	136.569
12:00 Mid	7.2	138.669	12:00 Mid	4.4	135.869
September 22, 1938			September 25, 1938		
6:00 AM	8.9	140.369	6:00 AM	4.1	135.569
12:00 Noon	11.0	142.469	12:00 Noon	3.6	135.069
6:00 PM	11.4	142.869	6:00 PM	3.1	134.569
12:00 Mid	10.5	141.969	12:00 Mid	3.8	135.269

Gauge Heights at Collinsville, Connecticut
At Collins Company Dam

Gauge 0.000 = 286.370 feet m.s.l.

OBSERVED BY: Collins Company.

PERIOD: 7:00AM, September 19 to 7:00AM, September 23, 1938.

FLOOD CREST ALTITUDE: 297.070 feet, m.s.l.

DATUM: United States Coast and Geodetic Survey, m.s.l.

LOCATION OF GAUGE: Bristol Recorder in small frame house on dam just east of gates.

REMARKS: Altitude of measuring points determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge 0.000 is top of dam.

Gauge Heights at Collinsville, Connecticut
at Collins Company Dam

Gauge 0.000 = 286.670 feet m.s.l.

TIME E.S.T.	STAGE HEIGHT (feet)	ELEVATION m.s.l.
September 19, 1938		
7:00 AM	3.00	289.670
6:00 PM	4.00	290.670
12:00 Mid	5.00	291.670
September 20, 1938		
3:00 AM	4.50	291.170
7:00	4.50	291.170
9:00	5.00	291.670
12:00 Noon	5.00	291.670
3:00 PM	4.80	291.470
6:00	5.00	291.670
9:00	4.60	291.270
12:00 Mid	5.00	291.670
September 21, 1938		
3:00 AM	5.40	292.070
6:00	5.60	292.270
7:00	5.00	291.670
10:00	5.60	292.270
12:00 Noon	5.80	292.470
3:00 PM	6.00	292.670
6:00	6.80	293.470
7:00	7.80	294.470
September 21, 1938 (cont'd)		
8:00PM	8.80	295.470
9:00	9.60	296.270
10:00	10.20	296.870
11:00	10.40	297.070
12:00 Mid	10.00	296.670
September 22, 1938		
1:00 AM	9.50	296.170
2:00	8.80	295.470
3:00	8.80	295.470
4:00	7.20	293.870
5:00	6.60	293.270
6:00	6.20	292.870
7:00	5.80	292.470
9:00	5.30	291.970
12:00 Noon	4.60	291.270
3:00 PM	4.00	290.670
6:00	3.60	290.270
9:00	3.40	290.070
12:00 Mid	3.00	289.670
September 23, 1938		
3:00 AM	2.80	289.470
7:00	2.80	289.470

Gauge Heights at Unionville, Connecticut
At Connecticut Power Company Dam
One Mile ± Above Unionville

Gauge 0.00 = 225.897 feet m.s.l.

OBSERVED BY: Connecticut Power Company.

PERIOD: 6:00AM, September 21 to 11:00AM, September 22, 1938.

FLOOD CREST ALTITUDE: 238.897 feet, m.s.l.

DATUM: United States Coast and Geodetic Survey, m.s.l.

LOCATION OF GAUGE: Fastened to pile supporting gate house on the east end of dam. Pile is under north west end of gate house.

REMARKS: Altitude of measuring points determined by Connecticut Ground Water Survey.

Readings converted to mean sea level by Connecticut Ground Water Survey.

Time is Eastern Standard Time.

Gauge Heights at Unionville, Connecticut
At Connecticut Power Company Dam
One Mile ± Above Unionville

Gauge 0.000 = 225.897 feet m.s.l.

TIME E.S.T.	STAGE HEIGHT (feet)	ELEVATION m.s.l.	TIME E.S.T.	STAGE HEIGHT (feet)	ELEVATION m.s.l.
September 21, 1938			September 22, 1938		
			1:00 AM	10.1	235.997
6:00 AM	7.0	232.897	2:00	9.3	235.197
1:00 PM	7.4	233.297	3:00	8.4	234.297
4:00	7.6	233.497	4:00	7.5	233.397
5:00	8.2	234.097	5:00	7.0	232.897
7:00	8.3	234.197	6:00	6.8	232.697
8:00	10.7	236.597	7:00	6.4	232.297
9:00	12.2	238.097	8:00	6.3	232.197
10:00	13.0	238.897	9:00	6.2	232.097
11:00	13.0	238.897	10:00	6.2	232.097
12:00 Mid	12.5	238.397	11:00	5.5	231.397

XI. GENERAL LISTING OF HIGH-WATER MARKS IN THE FARMINGTON RIVER VALLEY

FARMINGTON RIVER
WEST BRANCH
STILL RIVER
MAD RIVER
SANDY BROOK

General Listing of High Water Marks
Farmington River Valley
Marks Set by Connecticut Ground Water Survey
Miles From Mouth Scaled on U. S. G. S. Topographical Maps

FR - Farmington River
WB - West Branch Farmington River
SR - Still River
MR - Mad River
SB - Sandy Brook

Town	No	Location	Miles From Mouth	Class	Elevation m.s.l.
Windsor	FR 1	Poquonnock	6.1	A	37.759
E. Granby	FR 2	H.E.L.Co.Dam 1 mile SE of Tariffville	12.0	A	142.869
Simsbury	FR 3	Tariffville Lace Co. Dam	12.3	A	150.771
"	FR 4	Desmond Riverside Road	18.2	A	159.096
"	FR 5	Ensign Bickford Co.	18.5	A	159.091
"	FR 6	Butler Weatogue	19.7	A	161.546
Avon	FR 7	Avon Diner	22.7	A	166.193
Farmington	FR 8	Fred's Diner	28.3	A	171.834
"	FR 9	Winchell Smith Grist Mill	28.5	A	172.000
"	FR 10	Clancy Store, Unionville	32.5	A	202.670
"	FR 11	Pine Tree, Unionville	32.6	B	203.720
"	FR 12	Myrtle Mill, Unionville	32.7	A	203.342
"	FR 13	Republic Steel Co. Unionville	32.8	A	203.889
"	FR 14	Lawton's Bridge Unionville	33.7	B	217.649
"	FR 15	Lawton's Grist Mill "	33.8	A	217.348
Avon	FR 16	C.P. Co. Dam Collinsville	34.6	A	238.409
Burlington	FR 17	R.4 - S. of RR Sta. 0.8 mi.	35.3	A	243.481
"	FR 18	Intersection R.4 & 116	36.1	A	258.116
"	FR 19	R.4 N. of RR Sta. 0.2 mi.	36.3	A	261.061
Canton	FR 21	Smith House - Collinsville	38.4	A	299.760
"	FR 23	C.H.D. Garage - Collinsville	38.9	A	299.530

Town	No	Location	Miles From Mouth	Class	Elevation m.s.l.
Canton	FR 24	Barnes house, Collinsville	39.1	A	300.520
New Hartford	FR 25	Satan's Kingdom Grill Route 44	42.6	A	358.845
" "	FR 27	Rt 44 Pine Meadow Center	44.4	A	372.400
" "	FR 28	Rt 44 at Wickett Road	44.7	A	378.740
" "	FR 29	New Hartford Garage	45.3	A	387.170
" "	FR 30	New Hartford Fire House	45.5	A	389.010
Barkhamsted	FR 31	Pleasant Valley	48.0	A	421.655
"	FR 32	Route 20, Riverton	52.0	A	504.155
"	FR 33	" " North of Riverton, 1/8 mile	52.1	A	506.495
"	FR 34	Grocock House Riverton	52.2	A	506.680
Colebrook	WB 1	Rt. 8-S. of bridge $\frac{1}{4}$ mi.	56.4	A	601.140
"	WB 2	Rt. 8 S. of bridge 1/8 mi.	56.7	A	603.545
"	WB 3	Rt. 8 at bridge	56.8	A	604.180
"	WB 4	Rt. 8 So. of bridge $\frac{1}{2}$ mi.	57.6	A	625.885
"	WB 5	Rt. 8 No. of inn 300 feet	58.0	A	644.410
"	WB 6	Rt. 8 at State Line	58.5	A	655.545
"	SB 1	Rt. 183 north of bridge	58.3	A	1058.765
"	SB 2	Rt. 183 north of Colebrook 0.3 mile	59.6	A	1081.770
"	SB 3	Rt. 183 north of Colebrook 1.2 mile	60.4	A	1185.385
Norfolk	SB 4	Rt. 183 north of Colebrook 1.7 mile	61.0	A	1210.610
Winchester	SR 1	North Main St. Winsted	57.0	A	693.875
"	SR 2	S. of Winsted 0.8 mile	57.5	A	699.000
Torrington	SR 3	Rt. 8 N. of Torrington 4 mi.	62.3	A	725.037
"	SR 4	Rt. 8, N. " " $3\frac{1}{2}$ mi.	62.8	A	730.619
Winchester	MR 1	19 Rowley St. Winsted	57.0	A	699.050

Town	No.	Location	Miles From Mouth	Class	Elevation m.s.l.
Winchester	MR 2	C.H.D. Tar Plant, Winsted	57.1	A	699.750
"	MR 3	Gas Co. Building, Winsted	57.5	A	705.183
"	MR 4	489 Main Street, Winsted	57.8	A	730.093
"	MR 5	787 Main Street, Winsted	58.0	A	751.873
"	MR 6	31 Front Street, Winsted	58.0	A	753.133

WINDSOR No. FR. 1 Elev. 37.759 feet m.s.l.

1690 River Street, Poquonock

The High Water Mark is a small brass U.S.G.S. marker set at the scum line on a 4"x4" wood stair support on the east face of a two-story frame building on the north bank of the Farmington River.

Established and referenced by the Connecticut Ground Water Survey. Class A. Used Metropolitan District B.M. at the northeast corner of Town Hall on West Street.
Elevation, 96.399 feet m.s.l.

EAST GRANBY No. FR 2 Elev. 142.869 feet m.s.l.

Hartford Electric Light Co. Power Plant

The High Water Mark is a small brass U.S.G.S. marker set at the flood crest on H.E.L.Co. pole 239 about 30 feet north of east end of the concrete gate platform, just above dam.

Established by the power house engineer and referenced by the Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. on bridge seat 1.3 miles southeast of Tariffville.
Elevation 113.00 feet m.s.l.

SIMSBURY No. FR 3 Elev. 150.771 feet m.s.l.

Tariffville Lace Co. Tariffville

The High Water Mark is a small brass U.S.G.S. marker set at the scum line on the west face at the northwest corner of the gate house at the west end of the dam.

Established and referenced by the Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. 181 W.
Elevation 161.379 feet m.s.l.

SIMSBURY No. FR 4 Elev. 159.016 feet m.s.l.

T. Desmond property, Riverside Road.

The High Water Mark is a chisel cut in the foundation wall at the front of the house.

Established by T. Desmond and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. on hydrant cap bolt at Butler House in Weatogue. C.G.W.S. Elevation 173.126 feet m.s.l. Run from U.S.G.S.B.M. at Avon Congregational Church.
Elevation 200.810 feet m.s.l.

SIMSBURY No. FR 5 Elev. 159.091 feet m.s.l.

Ensign-Bickford Co.

The High Water Mark is a chisel cut at the flood crest in brownstone foundation of Fuse House on the west face near the southwest corner, 13.5 inches above 1936 flood crest mark and 15 inches above 1927 flood crest mark.

Established by plant engineer and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. on hydrant top at F. S. Butler property in Weatogue. C.G.W.S. Elevation 173.126 feet m.s.l. Run from U.S.G.S.B.M. on step of Avon Congregational Church.
Elevation 200.810 feet m.s.l.

SIMSBURY No. FR 6 Elev. 161.546 feet m.s.l.

F.S.Butler property, Maple Elms,
Weatogue

The High Water Mark is a small brass U.S.G.S. marker set at the scum line on the 13th highway post south of Stillwater Brook culvert on the east side of Route 10.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. on hydrant top of F.S.Butler property in Weatogue. C.G.W.S. Elevation 173.126 feet m.s.l. Run from U.S.G.S.B.M. on step of Avon Congregational Church.
Elevation 200.810 feet m.s.l.

AVON No. FR 7 Elev. 166.193 feet m.s.l.

Avon Diner, West Bank of Farmington
River at Route U.S. 44

The High Water Mark is a small brass U.S.G.S. marker on sheathing in side open stairway at rear of kitchen.

Established by owner at flood crest and referenced by Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. on Avon Congregational Church step.
Elevation 200.810 feet m.s.l.

FARMINGTON No. FR 8 Elev. 171.834 feet m.s.l.

Fred's Diner, Route 4, southeast of
Farmington River Bridge

The High Water Mark is a pencil line 7 inches above vestibule floor at conduit on wall.

Established by owner at flood crest and referenced by Connecticut Ground Water Survey. Class A. Used U.S.C.& G.S. B.M. 18 W at Farmington Town Hall.
Elevation 244.899 feet m.s.l.

FARMINGTON No. FR 9 Elev. 172.000 feet m.s.l.

Winchell Smith's Grist Mill,
Mill Street at the Farmington River.

The High Water Mark is a small brass U.S.G.S. marker set at the flood crest on the southwest corner of frame mill building.

Established by mill foreman and referenced by Connecticut Ground Water Survey. Class A. Used U.S.C.& G.S. B.M. 18 W at Farmington Town Hall.
Elevation 244.899 feet m.s.l.

FARMINGTON No. FR 10 Elev. 202.670 feet m.s.l.

Clancy's Store, southeast of Route 177
and Farmington River Bridge at Unionville

The High Water Mark is a small brass U.S.G.S.marker set at the scum line on the northwest corner of frame building just off the ground.

Established and referenced by Connecticut Ground Water Survey. Class A. Used Unionville B.M. No. 6 at southeast corner of Route 4 and 177. Elevation 210.84 feet m.s.l. Run from U.S.C.& G.S.B.M. 18 W. Elevation 244.899 feet m.s.l. at Farmington Town Hall by Merton Hodge, C. E.

FARMINGTON No. FR 11 Elev. 203.720 feet m.s.l.

Southwest of Route 177 and Farmington
River Bridge at Unionville

The High Water Mark is a small brass U.S.G.S. marker set at the scum line on the base of a large pine tree about 6 feet above the ground.

Established and referenced by Connecticut Ground Water Survey. Class B. Used Unionville B.M. No. 6 at southeast corner of Route 4 and 177. Elevation 210.84 feet m.s.l. Run from U.S.C.& G.S.B.M. 18 W. Elevation 244.899 feet m.s.l. at Farmington Town Hall by Merton Hodge, C. E.

FARMINGTON No. FR 12 Elev. 205.342 feet m.s.l.

Myrtle Mill, Unionville

The High Water Mark is a small brass U.S.G.S marker set at the scum line on north face of large yellow brick chimney above the cleanout door.

Established and referenced by Connecticut Ground Water Survey. Class B. Used Unionville B.M.No. 6 at southeast corner of Route 4 and 177. Elevation 210.84 feet m.s.l. Run from U.S.C.& G.S.B.M. 18 W. Elevation, 244.899 feet m.s.l. at Farmington Town Hall by Morton Hodge, C. E.

FARMINGTON No. FR 13 Elev. 203.889 feet m.s.l.

Republic Steel Co. Unionville

The High Water Mark is a small brass U.S.G.S. marker set at the scum line in the brick work of the northwest corner of the shipping room building.

Established and referenced by Connecticut Ground Water Survey. Class A. Used Unionville B.M. No. 6 at southeast corner of Route 4 and 117. Elevation 210.84 feet m.s.l. Run from U.S.C.& G.S.B.M. 18 W. Elevation 244.899 feet m.s.l. at Farmington Town Hall by Merton Hodge, C. E.

FARMINGTON No. FR 14 Elev. 217.649 feet m.s.l.

Lawton's Bridge, Route 4, Unionville

The High Water Mark is a small brass U.S.G.S. marker set at the scum line on a wooden block carrying railing on third upright girder from east end on the south side of steel highway bridge.

Established and referenced by Connecticut Ground Water Survey Class B. Used C.H.D.B.M. on Avon-Farmington Town Line M.S. Elevation 244.89 feet m.s.l.

FARMINGTON No. FR 15 Elev. 217.348 feet m.s.l.

Lawton's Grist Mill, Route 4, Unionville

The High Water Mark is a small brass U.S.G.S. marker set at the scum line on the northwest corner of main mill building.

Established and referenced by Connecticut Ground Water Survey Class A. Used C.H.D.B.M. on Avon-Farmington Town Line M.S. Elevation 244.89 feet m.s.l.

AVON No. FR 16 Elev. 238.409 feet m.s.l.

Connecticut Power Co. Dam
1-1/4 miles north of Unionville

The High Water Mark is a small brass U.S.G.S. marker set at the scum line on the northeast corner of gate house just above foundation line.

Established and referenced by Connecticut Ground Water Survey. Class A. Used C.H.D.B.M. on northeast corner of porch step at A. E. Penny house.
Elevation 283.87 feet m.s.l.

BURLINGTON No. FR 17 Elev. 243.481 feet m.s.l.

Route 4 - .8 mile south of Burlington Station

The High Water Mark is a surveyor's tack set at the scum line in S.N.E.T.Co. pole 97.

Established and referenced by Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. on top of bridge seat north side of west end, east of Route 4, about 200 feet north of Route 116.
Elevation 253.881 feet m.s.l.

BURLINGTON No. FR 18 Elev. 258.116 feet m.s.l.

Intersection of Route 4 and 116

The High Water Mark is a surveyor's tack set at the scum line on the northeast corner of Hartigan Fruit Stand, 25 feet west of road.

Established and referenced by Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. on top of bridge seat north side of west end, east of Route 4, about 200 feet north of Route 116.
Elevation 253.881 feet m.s.l.

BURLINGTON No. FR 19 Elev. 261.061 feet m.s.l.

Route 4, north of Burlington Station, about .2 mile

The High Water Mark is a surveyor's tack set at the scum line on the west side of a state highway fence post, 30 feet north of S.N.E.T.Co. pole 138.

Established and referenced by Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. on top of bridge seat north side of west end, east of Route 4, about 200 feet north of Route 116.
Elevation 253.881 feet m.s.l.

CANTON No. FR 21 Elev. 299.760 feet m.s.l.

Village of Collinsville

The High Water Mark is a surveyor's tack set at the scum line on the northwest corner of E. J. Smith's house opposite F.V.T.Co. pole C 76, opposite Rourke-Robotham Company.

Established and referenced by Connecticut Ground Water Survey. Class A. Used C.H.D.B.M. on Farmington River bridge at Collinsville.
Elevation 297.390 feet m.s.l.

CANTON No. FR 23 Elev. 299.530 feet m.s.l.

Village of Collinsville,
State Highway Department Garage

The High Water Mark is a surveyor's tack set on the scum line at the southeast corner of main structure on River Road to New Hartford.

Established and referenced by Connecticut Ground Water Survey Class A. Used C.H.D.B.M. on Farmington River bridge at Collinsville.
Elevation 297.390 feet m.s.l.

CANTON No. FR 24 Elev. 300.520 feet m.s.l.

Village of Collinsville

The High Water Mark is a chiseled cross at the scum line on the southwest corner of third step from bottom on walk from street to W. W. Barnes house.

Established and referenced by Connecticut Ground Water Survey Class A. Used C.H.D.B.M. on Farmington River Bridge at Collinsville.
Elevation 297.390 feet m.s.l.

NEW HARTFORD No. FR 25 Elev. 358.845 feet m.s.l.

Satan's Kingdom Grill on Route 44

The High Water Mark is a surveyor's tack set at the scum line on the northeast corner of enclosed porch, 2 feet under the eaves.

Established and referenced by Connecticut Ground Water Survey Class A. Used U.S.G.S.B.M., 2.5 miles southeast of New Hartford on steel highway bridge over Farmington River.
Elevation 358.120 feet m.s.l.

NEW HARTFORD No. FR 27 Elev. 372.400 feet m.s.l.

Chapin 1926 Factory, Pine Meadow Center

The High Water Mark is a chiseled "V" at the scum line on the southwest corner of factory in brick work, 6 feet above the ground.

Established and referenced by Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. on steel railroad trestle in New Hartford Village.
Elevation 386.140 feet m.s.l.

NEW HARTFORD No. FR 28 Elev. 378.740 feet m.s.l.

Wickett Road at Route 44

The High Water Mark is a chiseled "V" on the scum line three feet from the northeast corner of the Shell Gas Station, on perpendicular face of coping at intersection with oval cement foundation four inches below coping top.

Established and referenced by Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. on steel railroad trestle in New Hartford village.
Elevation 386.140 feet m.s.l.

NEW HARTFORD No. FR 29 Elev. 387.170 feet m.s.l.

New Hartford Garage, Route 44

The High Water Mark is a surveyor's tack set at the scum line on the southwest corner of building two feet above foundation line.

Established and referenced by Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. on steel railroad trestle in New Hartford village.
Elevation 386.140 feet m.s.l.

NEW HARTFORD No. FR 30 Elev. 389.010 feet m.s.l.

New Hartford Fire House

The High Water Mark is a chiseled "V" in foundation brick work of building at the northeast corner on eigth course below base board.

Established and referenced by Connecticut Ground Water Survey Class A. Used U.S.G.S.B.M. on steel railroad trestle in New Hartford village.
Elevation 386.140 feet m.s.l.

BARKHAMSTED No. FR 31 Elev. 421.655 feet m.s.l.

R. C. Norton's store, Pleasant Valley

The High Water Mark is a chiseled cross set at the scum line in concrete oval for gas pumps in front of store building.

Established and referenced by Connecticut Ground Water Survey. Class A. Used Metropolitan Water Co. B.M. on Pleasant Valley Road, .4 mile north of its intersection with Route 17.
Elevation 411.060 feet m.s.l.

BARKHAMSTED No. FR 32 Elev. 504.155 feet m.s.l.

Riverton, Route 20, 100 feet west of
West Branch of Farmington River Bridge

The High Water Mark is a spike set at the scum line on the southeast corner of the south wing of a brick building on the north side of road, 100 feet west of bridge.

Established and referenced by Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. in Village of Riverton, at front entrance to Union Church. Elevation 503.980 feet m.s.l.

BARKHAMSTED No. FR 33 Elev. 506.495 feet m.s.l.

Route 20 - 1/8 mile north of Riverton

The High Water Mark is a surveyor's tack set at the scum line on the southeast corner of the south wing of the Mayburn house.

Established and referenced by Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. in Village of Riverton, at front entrance to Union Church. Elevation 503.980 feet m.s.l.

BARKHAMSTED No. FR 34 Elev. 506.680 feet m.s.l.

Route 20, Mrs. F. H. Grocock's property

The High Water Mark is a surveyor's tack set at the scum line on the outside corner south side of kitchen door.

Established and referenced by Connecticut Ground Water Survey. Class A. Used U.S.G.S.B.M. in Village of Riverton, at front entrance to Union Church. Elevation 503.980 feet m.s.l.

COLEBROOK No. WB 1 Elev. 601.140 feet m.s.l.

Route 8, one mile south of Colebrook River and $\frac{1}{4}$ mile south of Route 8 at West Branch Farmington River crossing.

The High Water Mark is a surveyors tack set at the scum line on the third highway fence post north of S.N.E.T.Co. pole 1182.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. Metropolitan Water Company B.M. on concrete bridge over West Branch Farmington River on Route 8. Elevation, 610.490 feet m.s.l.

COLEBROOK No. WB 2 Elev. 603.545 feet m.s.l.

Route 8 - 1 mile south of Colebrook River and 1/8 mile south of Route 8 and West Branch Farmington River crossing.

The High Water Mark is a surveyors tack set at the scum line on a highway fence post on the east side of road 100 feet north of Tydol Gas Station.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. Metropolitan Water Company B.M. on concrete bridge over West Branch Farmington River on Route 8. Elevation, 610.490 feet m.s.l.

COLEBROOK No. WB 3 Elev. 604.180 feet m.s.l.

Route 8 at West Branch Farmington River Bridge.

The High Water Mark is a chisel cut on the east end, south side wing wall.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. Metropolitan Water Company B.M. on concrete bridge over West Branch Farmington River on Route 8. Elevation, 610.490 feet m.s.l.

COLEBROOK No. WB 4 Elev. 625.885 feet m.s.l.

Bette's Garage, Route 8 - $\frac{1}{2}$ mile south of Colebrook River.

The High Water Mark is a surveyors tack set at the scum line on post separating the north and middle entrance 45 feet from north west corner.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. Metropolitan Water Company B.M. on bridge over brook 300 feet south of Bette's garage. Elevation, 622.330 feet m.s.l.

COLEBROOK No. WB 5 Elev. 644.410 feet m.s.l.

C.B.Humphrey property, Colebrook River, Route 8.

The High Water Mark is a surveyors tack at the scum line on the southwest corner of house, 20 inches above base board.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. Metropolitan Water Company B.M. on State Line monument at west side of Route 8. Elevation 658.490 feet m.s.l.

COLEBROOK No. WB 6 Elev. 655.545 feet m.s.l.

Route 8 at Connecticut-Massachusetts State Line.

The High Water Mark is at base of stone steps front of house just south of the state line on the east side of road.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. Metropolitan Water Company B.M. at state line. Elevation 658.490 feet m.s.l.

COLEBROOK No. SB 1 Elev. 1058.765 feet m.s.l.

Route 183 - 200 feet north of Sandy Brook Bridge.

The High Water Mark is a surveyors tack set at the scum line on telegraph pole 374 about 2.5 feet above ground level.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. northeast corner of culvert on the west side of Route 183 at its intersection dirt road along Sandy Brook. C.G.W.S. elevation 1064.440 feet m.s.l. Run from U.S.G.S.B.M. 1128-204 W. Elevation, 1127.956 feet m.s.l.

COLEBROOK No. SB 2 Elev. 1081.770 feet m.s.l.

Route 183 - .3 mile north of North Colebrook

The High Water Mark is a surveyors tack set at the scum line on S.N.E.T.Co. pole 516 about 6 inches above ground level.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. northeast corner of culvert on the west side of Route 183 at its intersection dirt road along Sandy Brook. C.G.W.S. elevation 1064.440 feet m.s.l. Run from U.S.G.S.B.M. 1128-204 W. Elevation, 1127.956 feet m.s.l.

COLEBROOK No. SB 3 Elev. 1185.385 feet m.s.l.

Route 183, about 1.2 miles north of North Colebrook.

The High Water Mark is a surveyors tack set at the scum line on a fence post on the east side of road directly in front of northwest corner of bridge.

Established and referenced by Connecticut Ground Water Survey. Class A. Reference B.M. northeast corner of culvert on the west side of Route 183 at its intersection dirt road along Sandy Brook. C.G.W.S. elevation 1064.440 feet m.s.l. Run from U.S.G.S.B.M. 1128-204 W. Elevation, 1127.956 feet m.s.l.

NORFOLK No. SB 4 Elev. 1210.370 feet m.s.l.

Route 183, about 1.7 miles north of North Colebrook.

The High Water Mark is a surveyors tack set at the scum line in S.N.E.T.Co pole 3004 on the west side of road about 1,000 feet north of Norfolk-Colebrook town line.

Established and referenced by C.G.W.S. Class A. Used. U.S.G.S.B.M. 1128-204 W. Elevation, 1127.956 feet m.s.l.

WINCHESTER No. SR 1 Elev. 695.375 feet m.s.l.

W. L. Gilbert Clock Company property North Main Street, Winsted, on east side of river at the dam.

The High Water Mark is a chiseled cross mark at the scum line 14.7 feet south of corrugated steel siding of overhead runway between units on opposite sides of river, on large granite stone of perpendicular wall supporting east building and 1.5 feet above flume cover planking.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. U.S.G.S.B.M. at W. L. Gilbert Clock Company building. Elevation, 705.62 feet m.s.l.

WINCHESTER No. SR 2 Elev. 699.000 feet m.s.l.

Route 8, about 8/10 mile south of Winsted.

The High Water Mark is a surveyors tack set at the scum line on S.N.E.T.Co. pole 2434 on the west side of road 5.5 feet above ground level.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. U.S.G.S.B.M. on highway bridge over railroad 1 mile south of Winsted. Elevation, 701.80 feet m.s.l.

TORRINGTON No. SR 3 Elev. 725.037 feet m.s.l.

Route #8 - 4 miles north of Torrington

The High Water Mark is top of rails at sink hole crossing of railroad.

Established and referenced by Connecticut Ground Water Survey. Class C. Used. U.S.G.S.B.M. 730-200 W. Elevation, 729.912 feet m.s.l.

TORRINGTON No. SR 4 Elev. 730.619 feet m.s.l.

Route #8 - 3.5 miles north of Torrington Terminal Filling Station.

The High Water Mark is top edge of lower steel Tydol sign post section about 6 inches above the ground level.

Established and referenced by Connecticut Ground Water Survey. Class C. Used. U.S.G.S.B.M. U 19; Elevation, 729.569 feet m.s.l.

WINCHESTER No. MR 1 Elev. 699.050 feet m.s.l.

Winsted, Route #8, Dodd Garage

The High Water Mark is a chiseled "V" at the scum line on the northwest corner of brick building 1.8 feet above concrete line.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. U.S.G.S.B.M. on soldiers monument at corner of Main and North Main Streets, Winsted. Elevation, 710.710 feet m.s.l.

WINCHESTER No. MR 2 Elev. 699.750 feet m.s.l.

Winsted, State Highway Department Tar Plant

The High Water Mark is a surveyors tack set at the flood crest on the northeast corner of frame building 1.5 feet above ground level.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. U.S.G.S.B.M. on soldiers monument at corner of Main & North Main Streets, Winsted. Elevation, 710.710 feet m.s.l.

WINCHESTER No. MR 3 Elev. 705.183 feet m.s.l.

Winsted Gas Company Office Building Winsted, Connecticut

The High Water Mark is a horizontal scratch at the scum line on the northwest corner of stucco building 2 feet above ground level.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. Town of Winchester B.M. tablet at corner of Case Avenue and Center Street.
Elevation, 703.203 feet m.s.l.

WINCHESTER No. MR 4 Elev. 730.093 feet m.s.l.

Socony Gas Station, 489 Main St. Winsted, Conn.

The High Water Mark is a surveyors tack set at the scum line on the northeast corner of building about 1 foot above base board.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. Town of Winchester B.M. Tablet #13 in sidewalk 200 feet east of Socony Station.
Elevation, 724.173 feet m.s.l.

WINCHESTER No. MR 5 Elev. 751.873 feet m.s.l.

American Oil Company Gas Station 787 Main Street, Winsted, Conn.

The High Water Mark is a chisled cross in cement ledge 3.5 feet directly in front of middle of door.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. U.S.G.S.B.M. 763-203 W.
Elevation, 762.623 feet m.s.l.

WINCHESTER No. MR 6 Elev. 753.133 feet m.s.l.

31 Front Street, Winsted

The High Water Mark is a chiseled "V" at the scum line on the southeast corner of house in the stone foundation 1.5 feet above ground level.

Established and referenced by Connecticut Ground Water Survey. Class A. Used. U.S.G.S.B.M. 763-203 W.
Elevation, 762.623 feet m.s.l.

MIMEOGRAPHED BULLETINS OF THE CONNECTICUT GROUND WATER SURVEY

S- 1 The Salinity of the Connecticut River, October 1, 1934 to September 30, 1937.

Part I - Text, 6 maps, 2 illustrations, 74 pages, 1938.

Parts II and III - Tabulations of chlorides in samples collected from the Connecticut River at Saybrook Highway bridge, 323 pages, 1938.

S-11 The Salinity of the Connecticut River at the Saybrook Highway bridge, October 1, 1937 to September 30, 1938.

Text, 1 illustration, tabulations, 192 pages, 1939.

(Similar to Parts II and III, Bulletin S-1)

GW-1 Record of wells, springs and ground-water levels in the towns of Bridgeport, Easton, Fairfield, Stratford and Trumbull, Connecticut.

Text, 242 pages, 5 maps, 1938.

GW-2 Record of wells, springs and ground-water levels in the towns of Branford, Chester, Clinton, Essex, Guilford, Haddam, Killingworth, Madison, North Branford, Old Saybrook, Saybrook and Westbrook, Connecticut.

Text, 340 pages, 12 maps, 1938.

GW-3 Record of wells, springs and ground-water levels in the towns of Bethany, East Haven, Hamden, Milford, North Haven, Orange, West Haven and Woodbridge, Connecticut.

Text, 247 pages, 8 maps, 1938.

GW-4 Record of wells, springs and ground-water levels in the towns of Berlin, Cromwell, Durham, Meriden, Middlefield, Middletown, Portland and Wallingford, Connecticut.

Text, 170 pages, 8 maps, 1938.

GW-5 Record of wells, springs and ground-water levels in the towns of Colchester, East Haddam, East Hampton, East Lyme, Lyme, New London, Old Lyme and Waterford, Connecticut.

Text, 314 pages, 8 maps, 1938.

GW-6 Ground-water levels in north-central Connecticut, October 1, 1934 to December 31, 1937.

Text, 212 pages, 1938.

October, 1939.